KAOS project – WP4

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Objective (goal G6)

“Inference of accurate predictions”

- Overview: extension and definition of new data mining and machine learning techniques capable of performing predictions on running process instances. The predictive models have to deal with concept-drift as well.
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  • What is a prediction? Is it affecting the future? Are predictions influencing each other? How to talk about our predictions? (any XES extension?)
  • To define our language, maybe, we should also think about the assessment: how to assess recommendations? Can we deploy our system?
Tasks (cont.)

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- **T4.4** Definition and realization of the new online multi-perspective prediction approach [12 PM]
  - Online learning + online prediction
  - Has to deal with noisy data
  - Has to deal with concept drifts (manually and automatically detected)
  - Should outperform other approaches
Effort and Deliverables

• Effort
  • UIBK (leader): 24 PM
  • UniBZ: 4 PM

• Deliverables
  • **D4.1** Techniques for the specification of prediction objectives [Report, M24]
  • **D4.2** Basic multi-perspective prediction techniques [Report, M30]
  • **D4.3** Refined version of the multi-perspective prediction techniques, robust to concept drifts [Report and prototype, M36]
Next Steps

• Be involved in the discussion regarding what is multi-perspective
  • Definition of the prediction problem
  • Definition of the prediction language

• Start collecting literature material