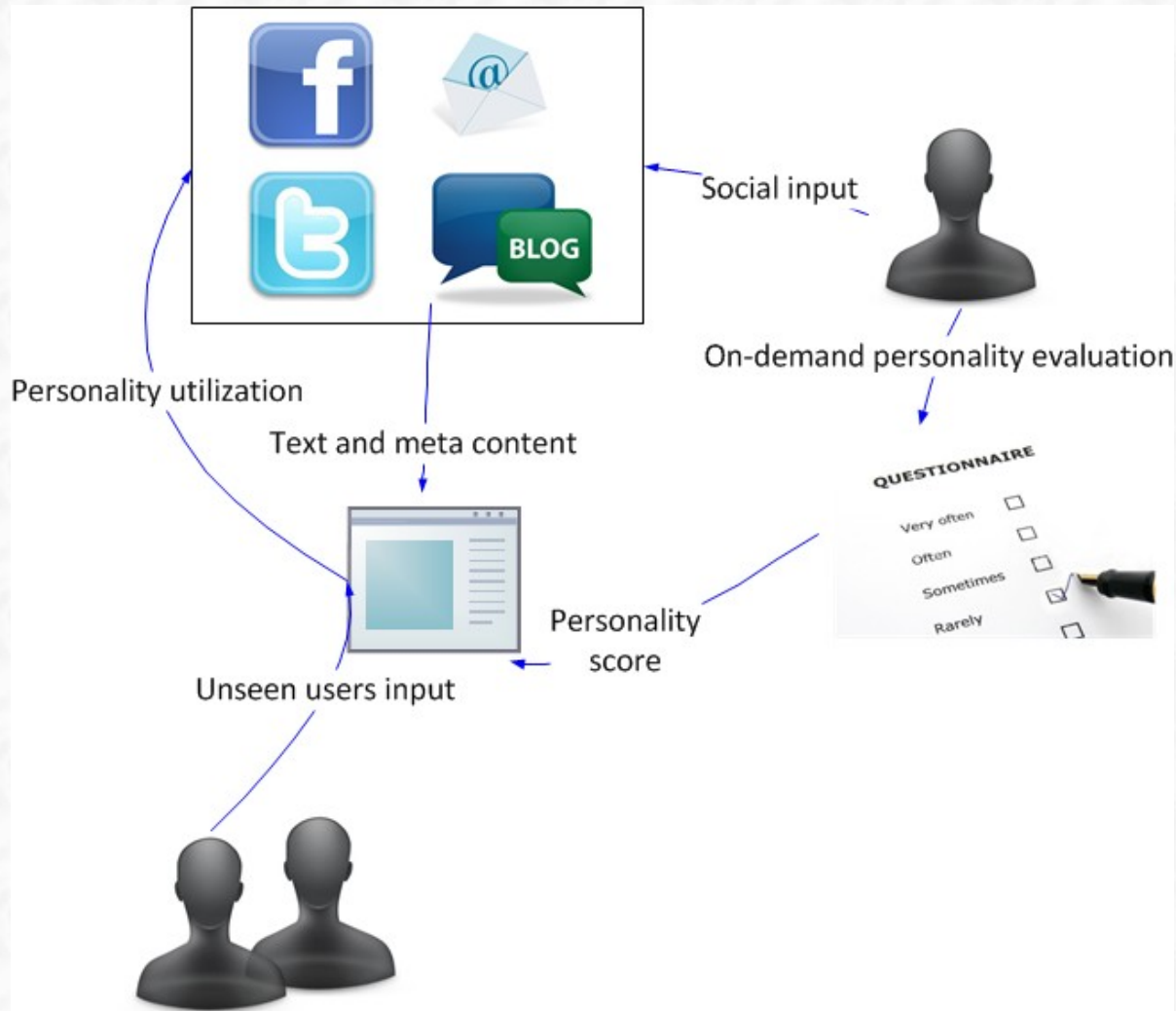# Personality Classification:

Computational Intelligence in Psychology and Social Networks

A. Kartelj, School of Mathematics, Belgrade

V. Filipovic, School of Mathematics, Belgrade

V. Milutinovic, School of Electrical Engineering, Belgrade
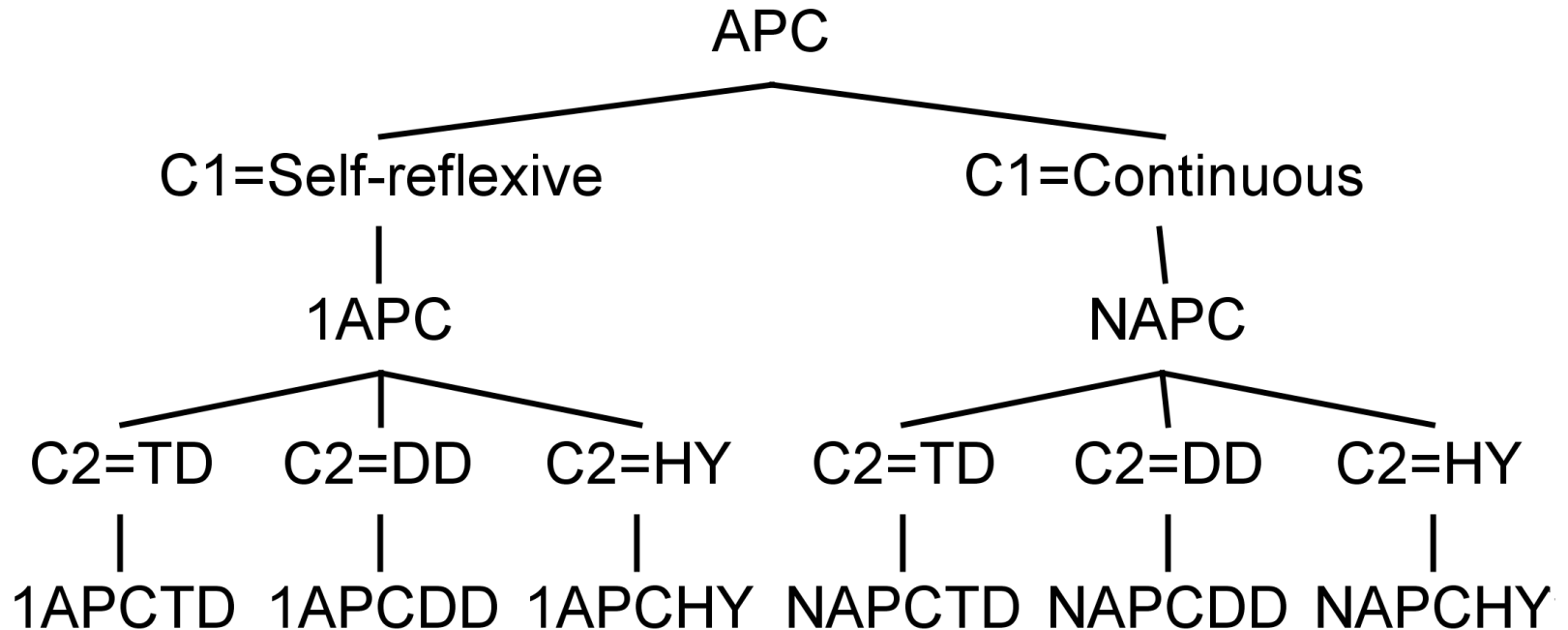
Problem setting

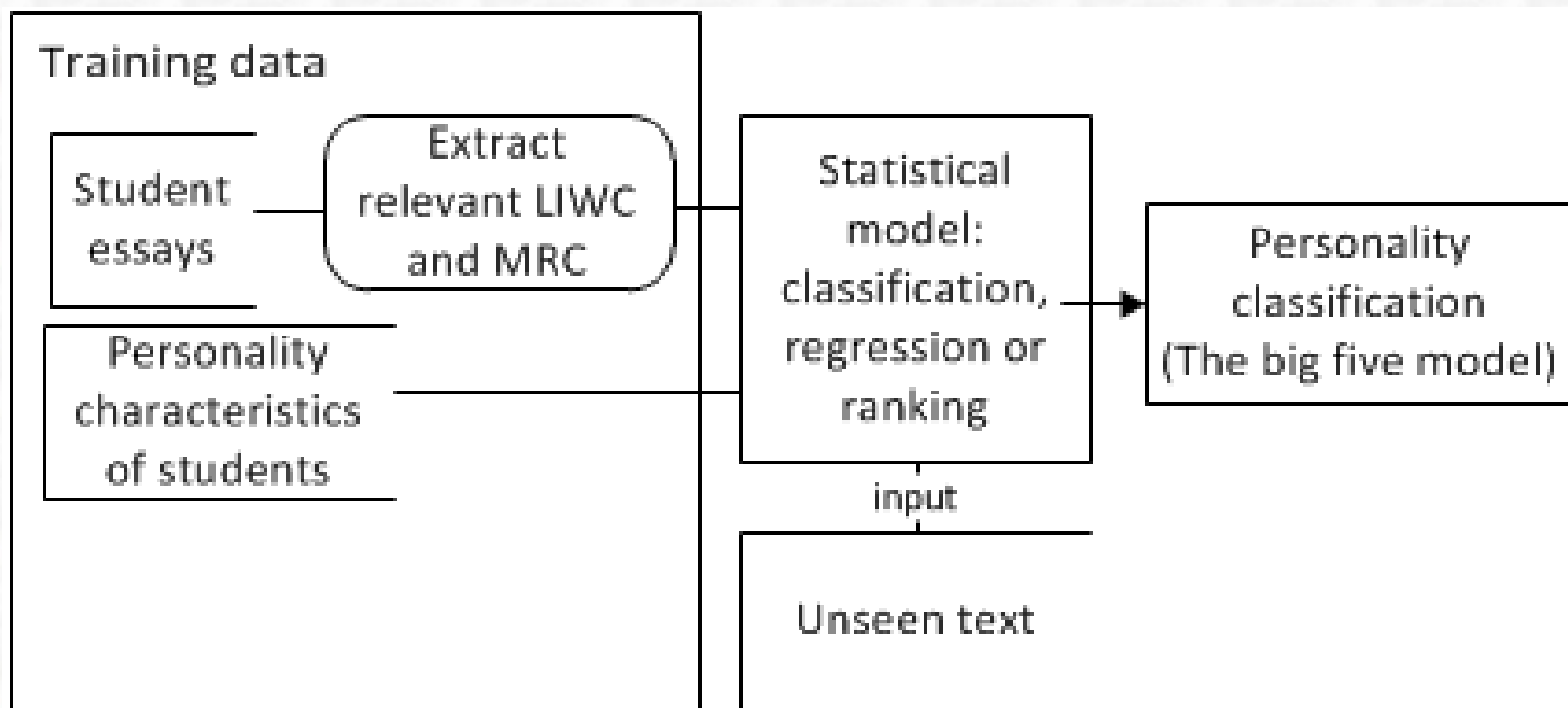# The big five model

Existing solutions concepts

- Corpus:
  - Essay, weblog, email, news group, Twitter counts...
- Personality measurement:
  - Questionnaire (internet and written). We are searching for an alternative!
- Model:
  - Stylistic analysis, linguistic features, machine learning techniques.

Proposed classification of existing solutions
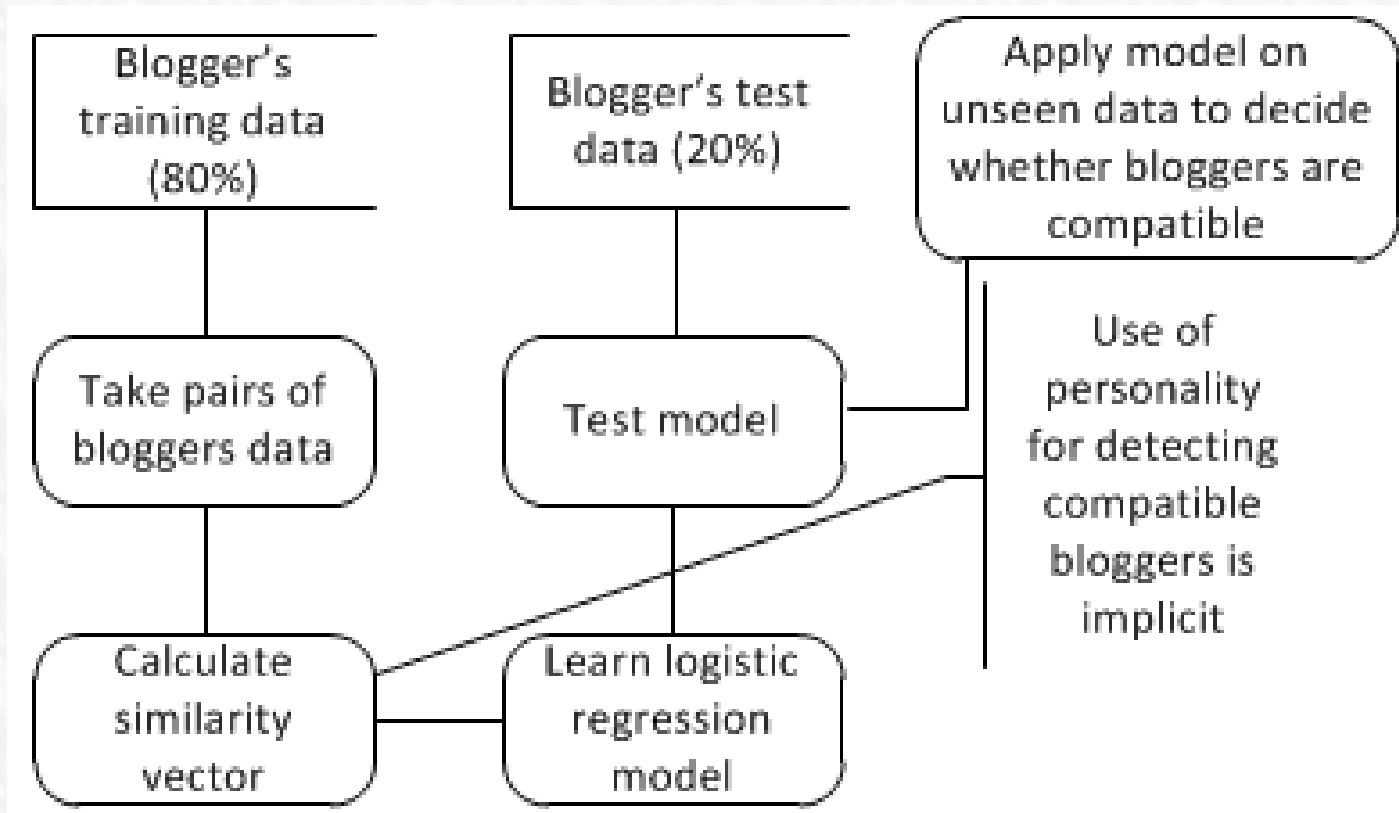
Selected solution #1
Mairesse, F. et al., Using linguistic cues for the automatic recognition of personality in conversation and text
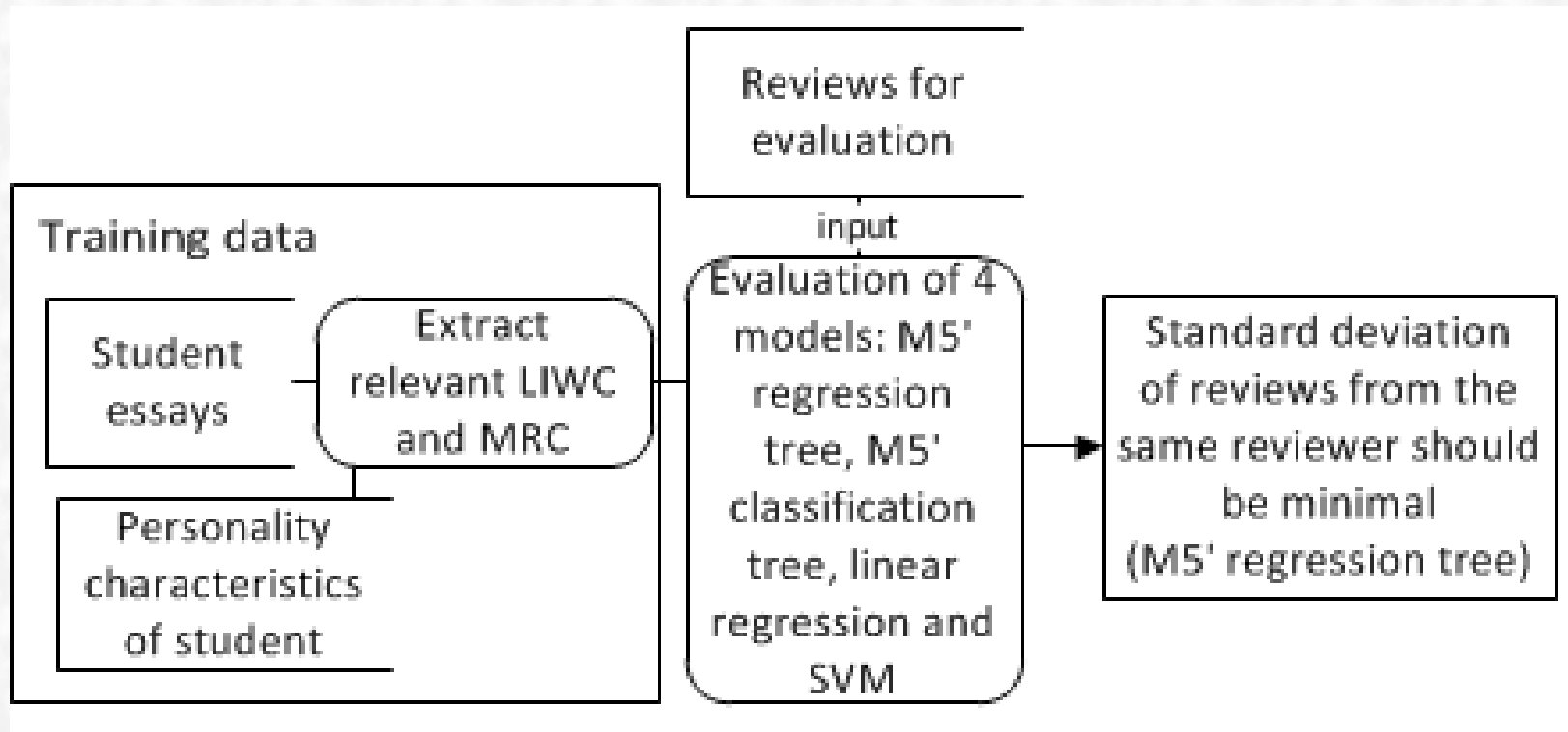
Selected solution #2
Wang, F., et al., Personality based latent friendship mining.
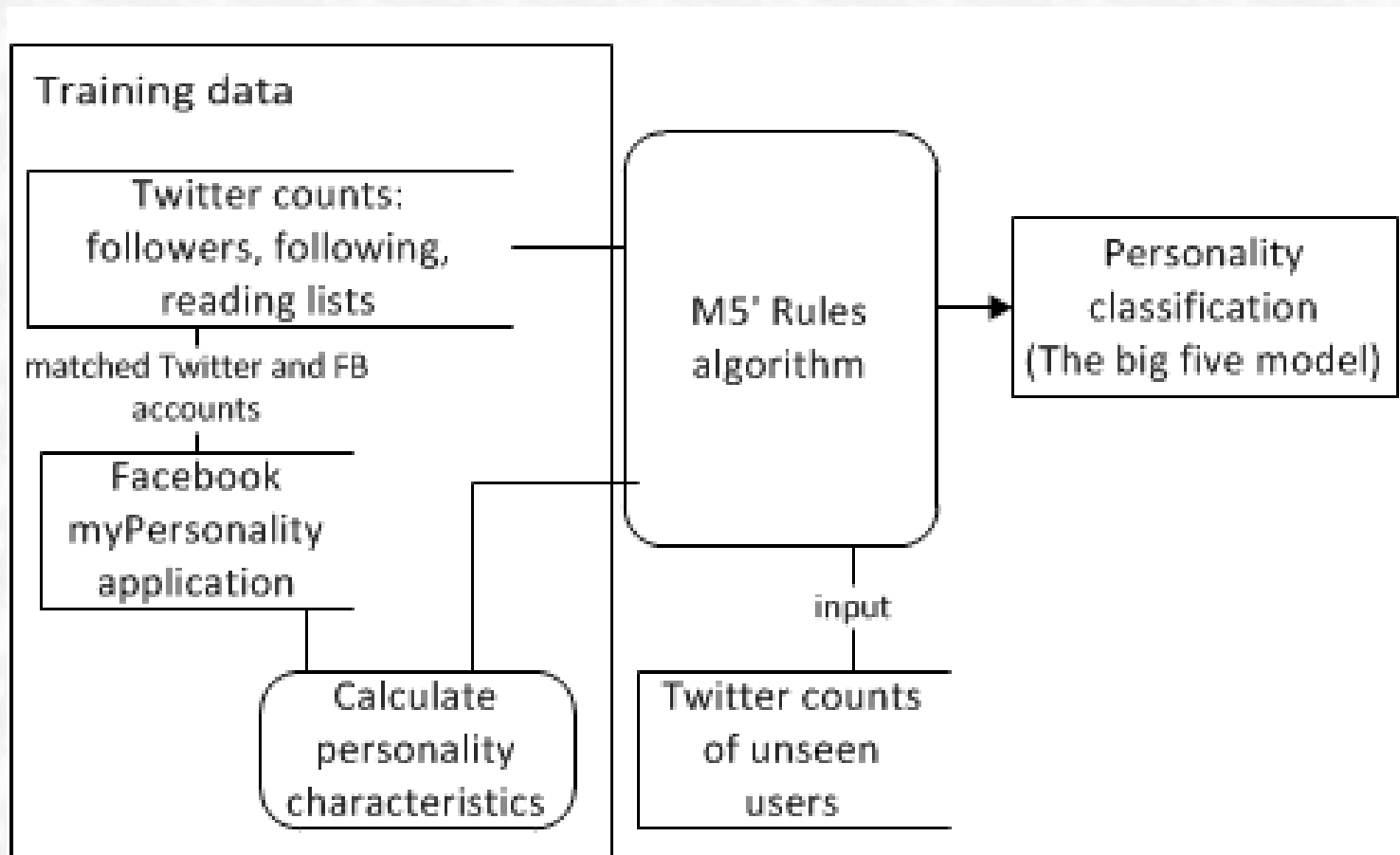
Selected solution #3

Roshcina, A., et al., A comparative evaluation of personality estimation algorithms for the twin recommender system.

Selected solution #4
Quercia, D., et al., Our twitter profiles, our selves: Predicting personality with twitter.

New ideas and future work

- New types of corpora:
  - Comments (news, youtube.com), social feeds…
- New types of personality assessment:
  - Youtube tagging, FB app. with hidden tasks.
- New models:
  - Clustering, hybrid methods…
- Dynamical system.

Personality classification:

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aleksandar.kartelj@gmail.com

Thank you for your attention. QUESTIONS?