Compositions of Personal Smart Spaces in Multi-Blogging

Ivan Galov, Dmitry Korzun
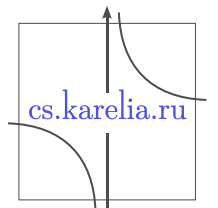
Petrozavodsk State University
Department of Computer Science

NOKIA FRUCT ПетрГУ cs.karelia.ru

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SmartScribo architecture

Smart Space:
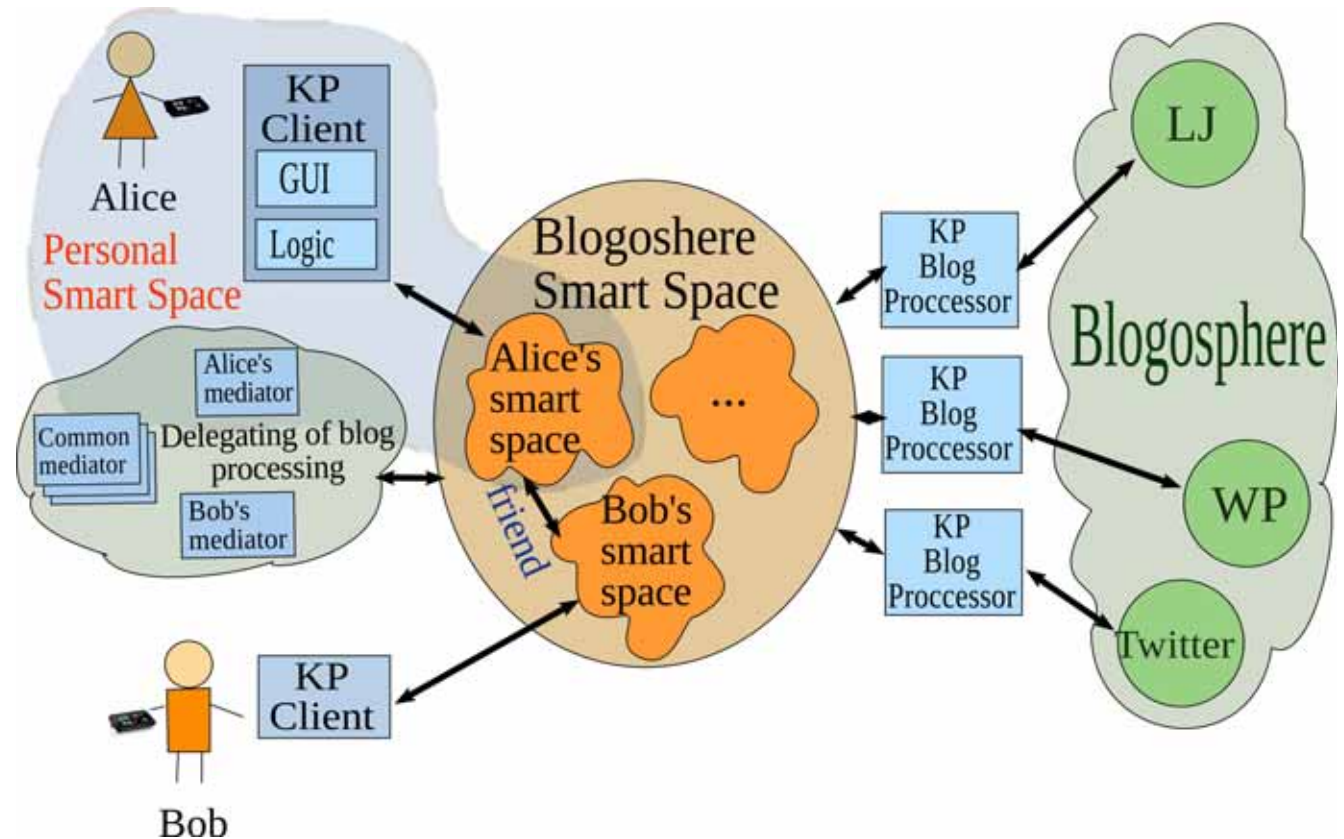sharing blogosphere

Multi-blogging:
many blog services
and accounts

**Multi-user and
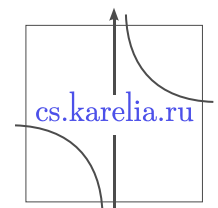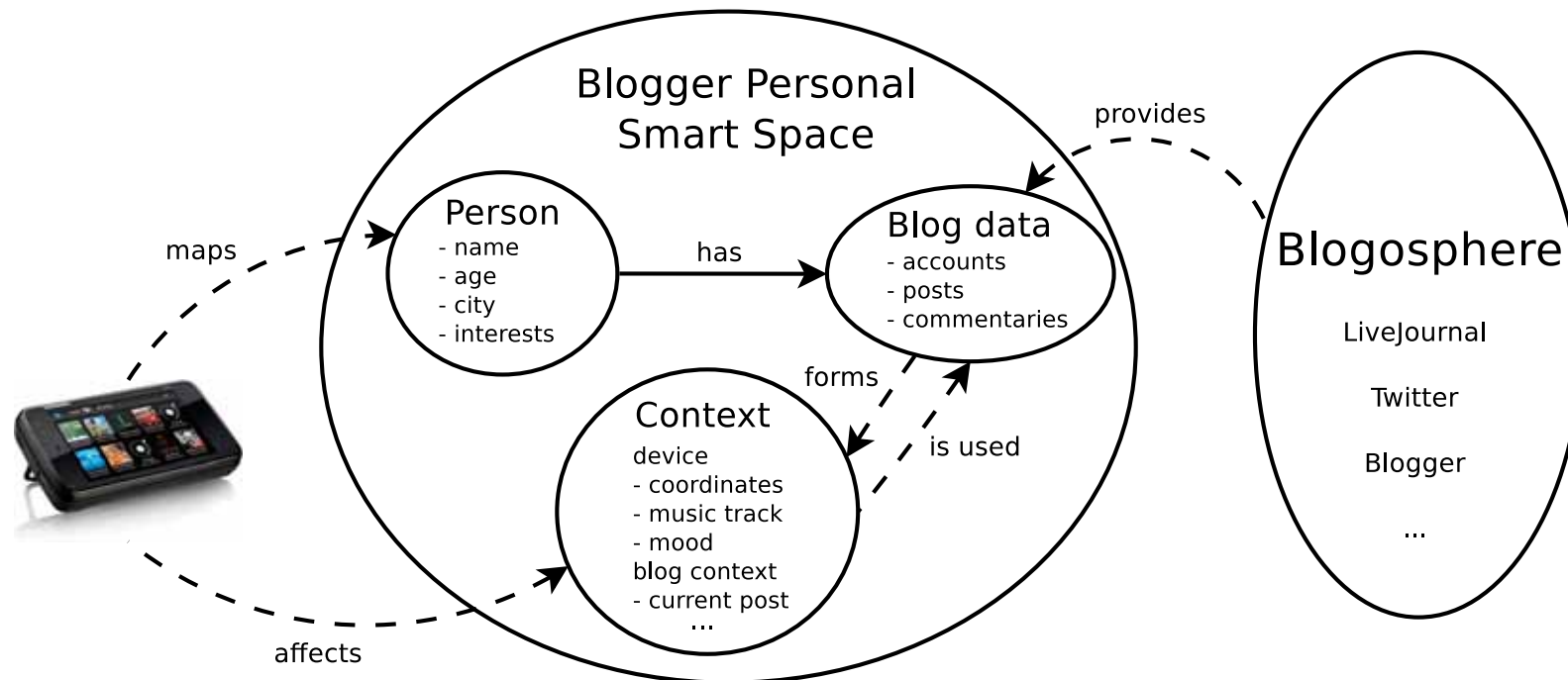mobility:** many
clients run on mobile
devices

User collaboration:
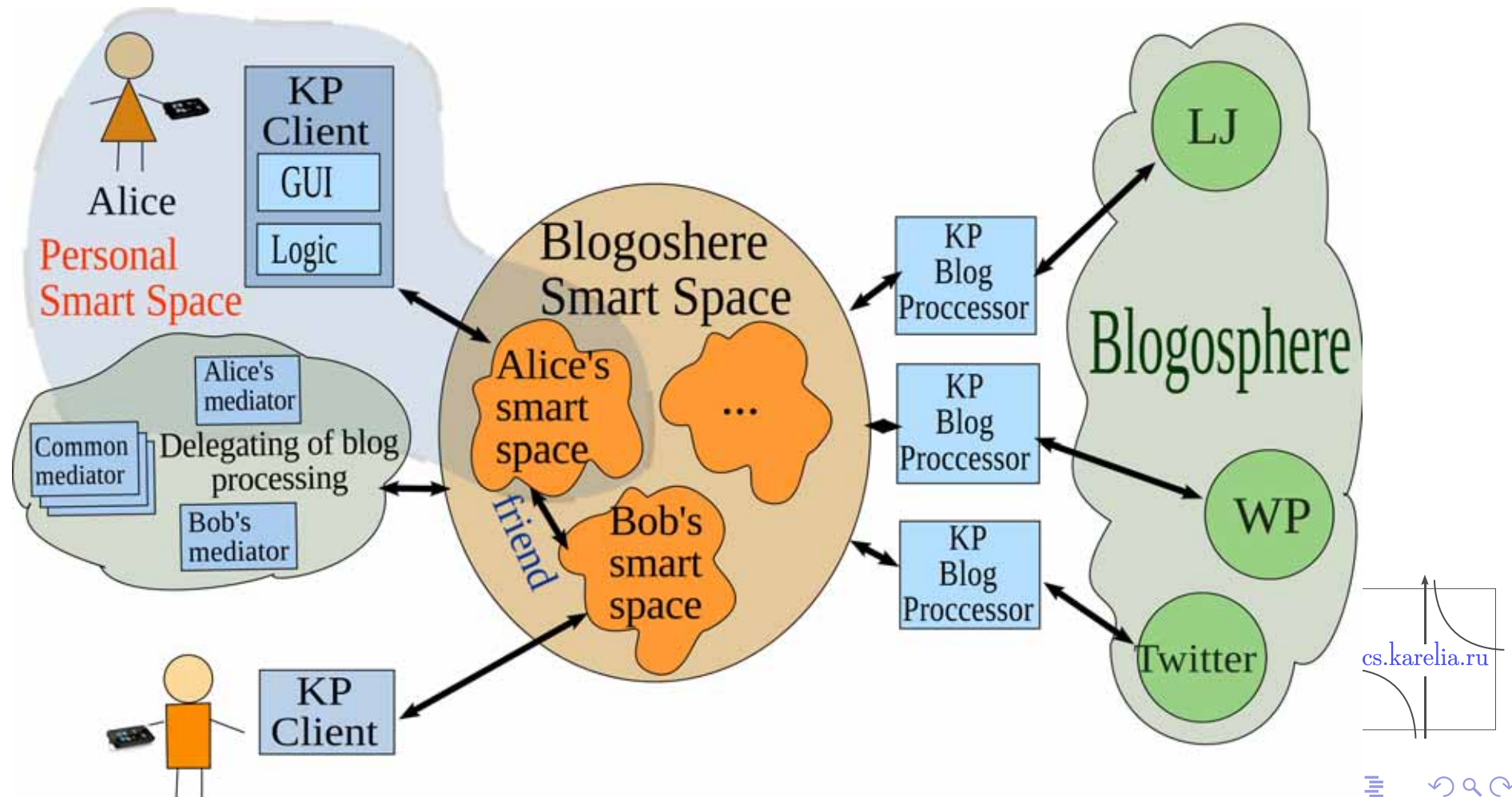semantic links
between personal
spaces

Blogger personal smart space

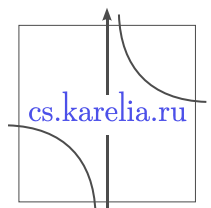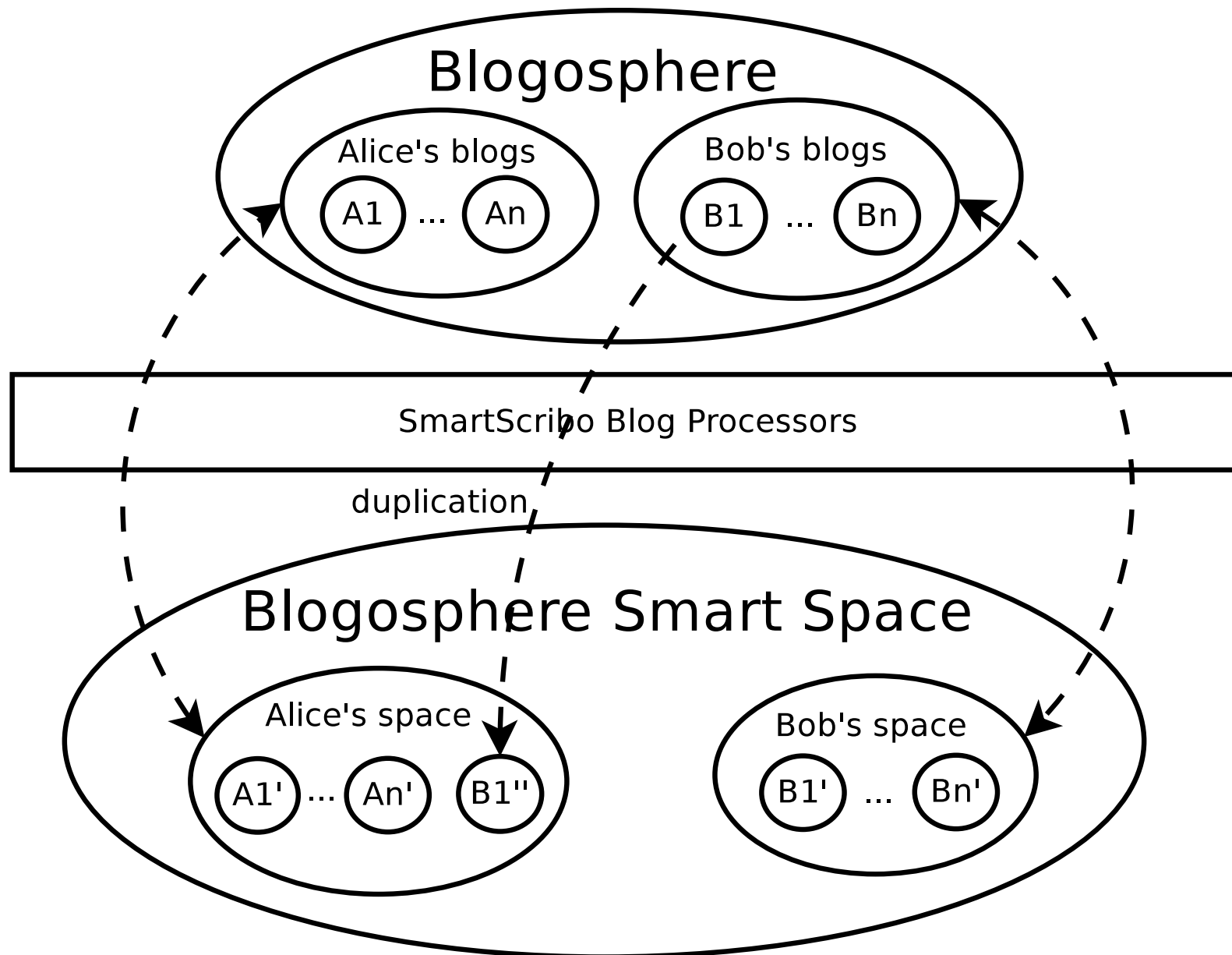- accumulates user information for blogging
- OWL ontology

Personal space compositions

- blogosphere activity: relations between personal smart spaces
- friendship relation between bloggers
- collaborative activity: blog aggregations, recommendations, ...

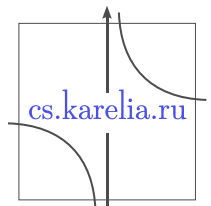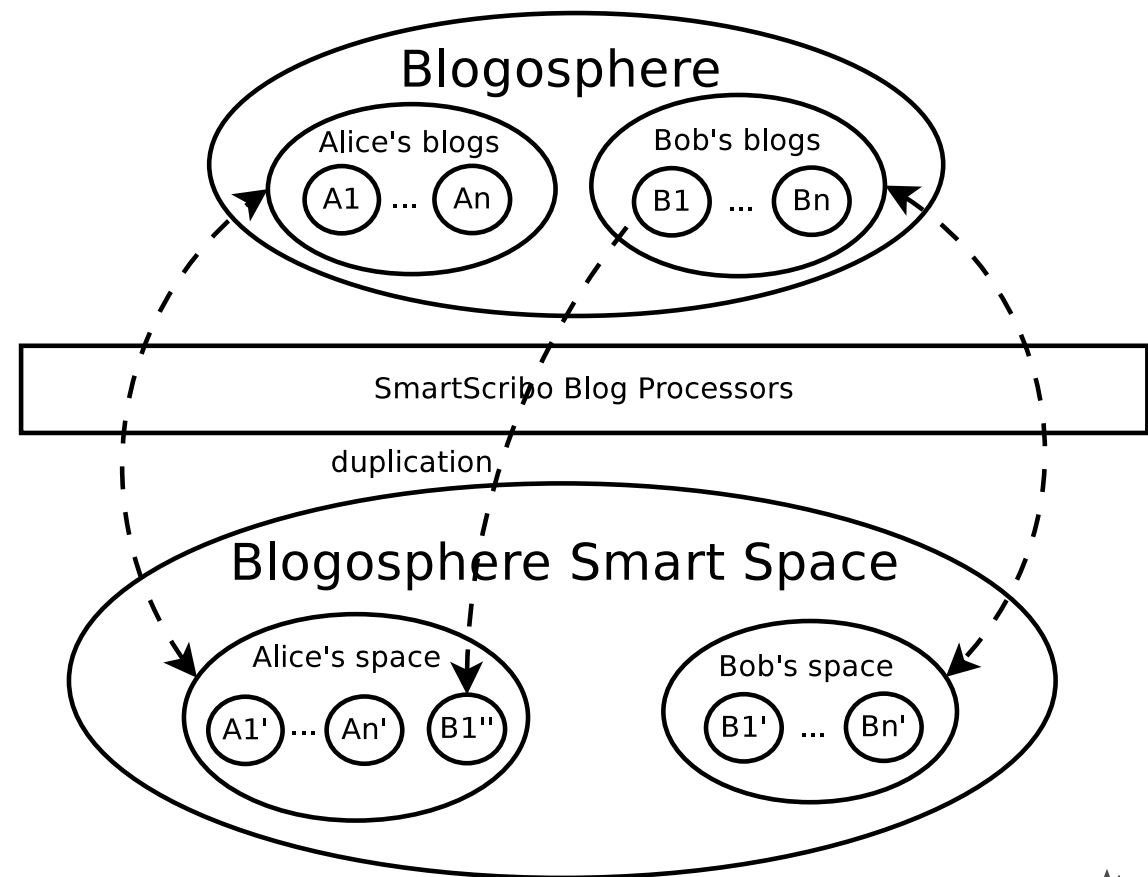# Composition methods: 1) data duplication

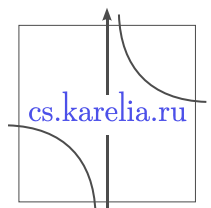# Composition methods: 1) data duplication

"+" advantages

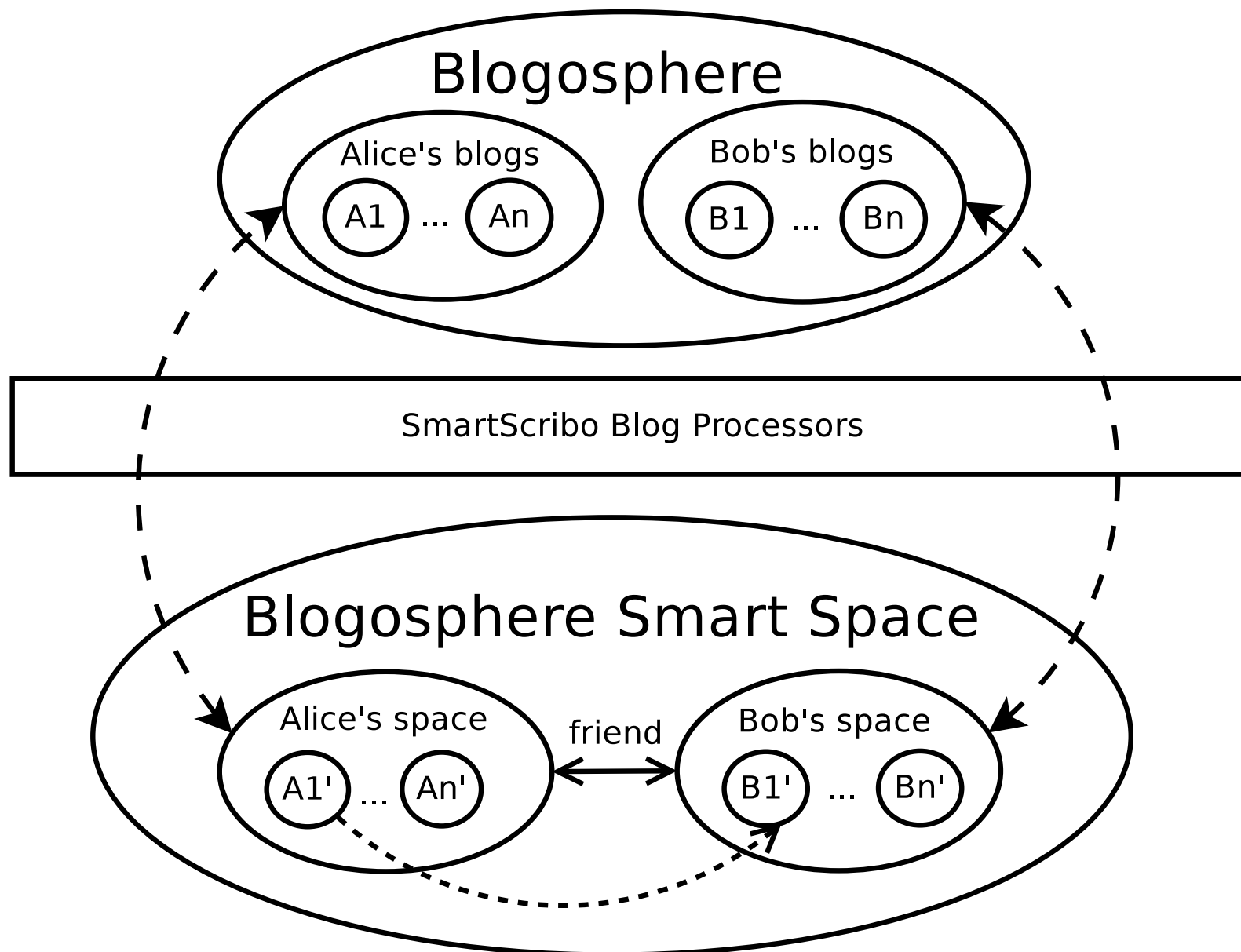- simplest and straightforward

- small community collaboration

"-" disadvantages

- storage redundancy

- frequent access to blog services

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Composition methods: 2) ontological link

Blogosphere

Alice's blogs

A1 ... An

Bob's blogs

B1 ... Bn

SmartScribo Blog Processors

Blogosphere Smart Space

Alice's space

A1' ... An'

friend

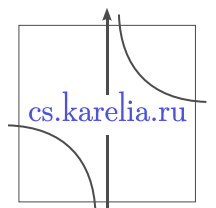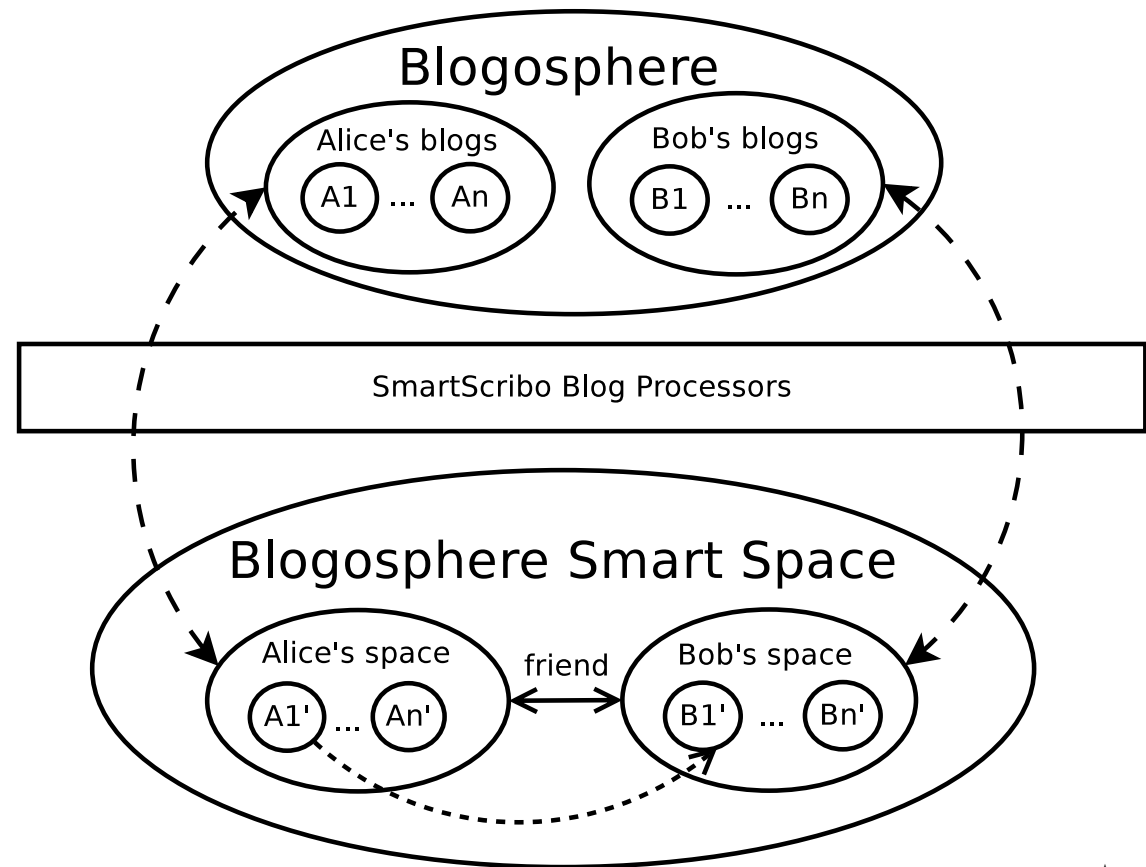Bob's space

B1' ... Bn'

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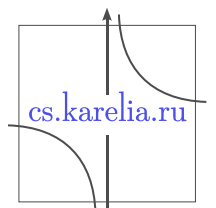
Composition methods: 2) ontological link

"+" advantages
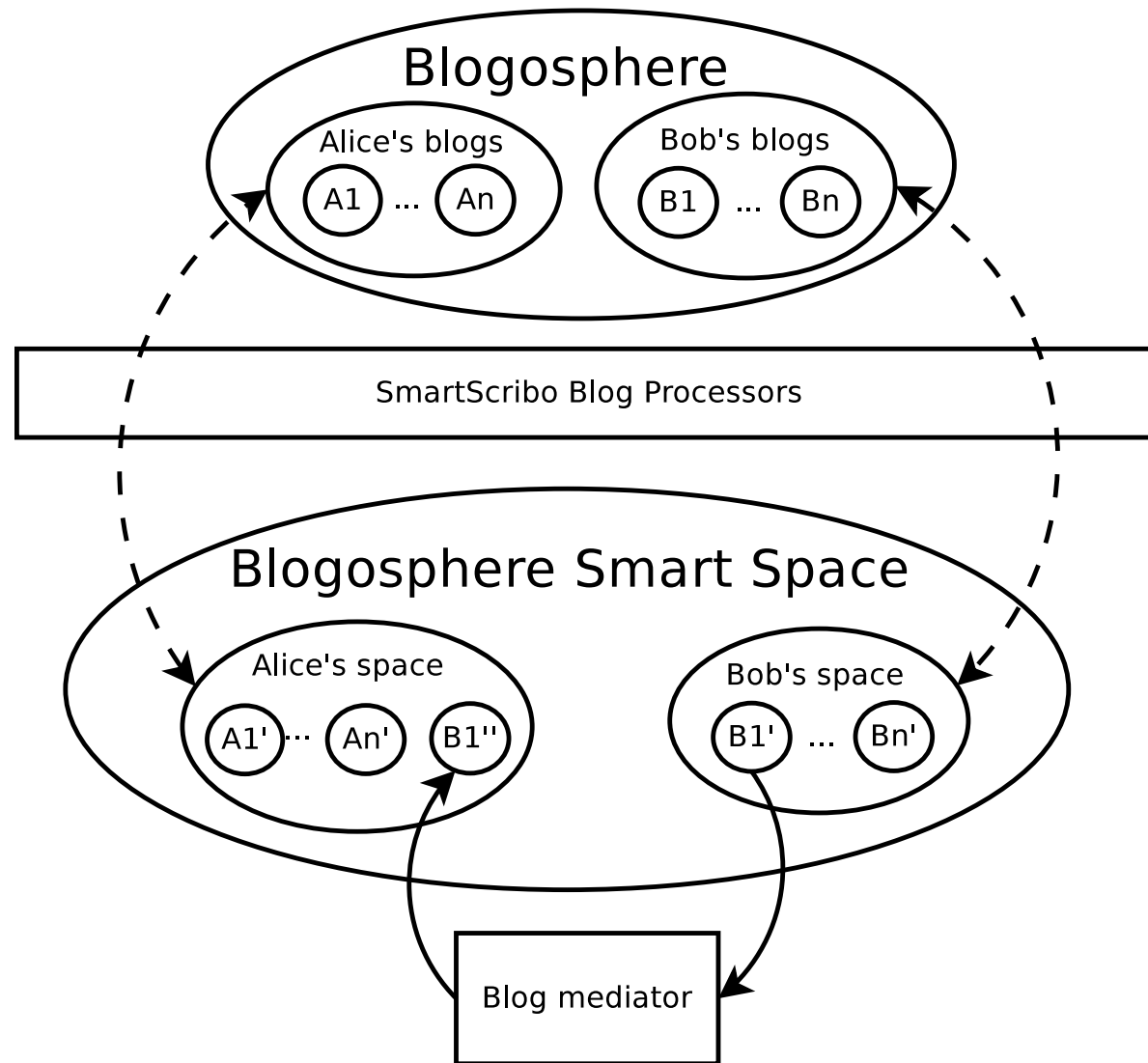
- no data duplication
- working within the smart spaces

"-" disadvantages

- more complicated implementation
- access security problem

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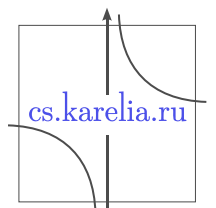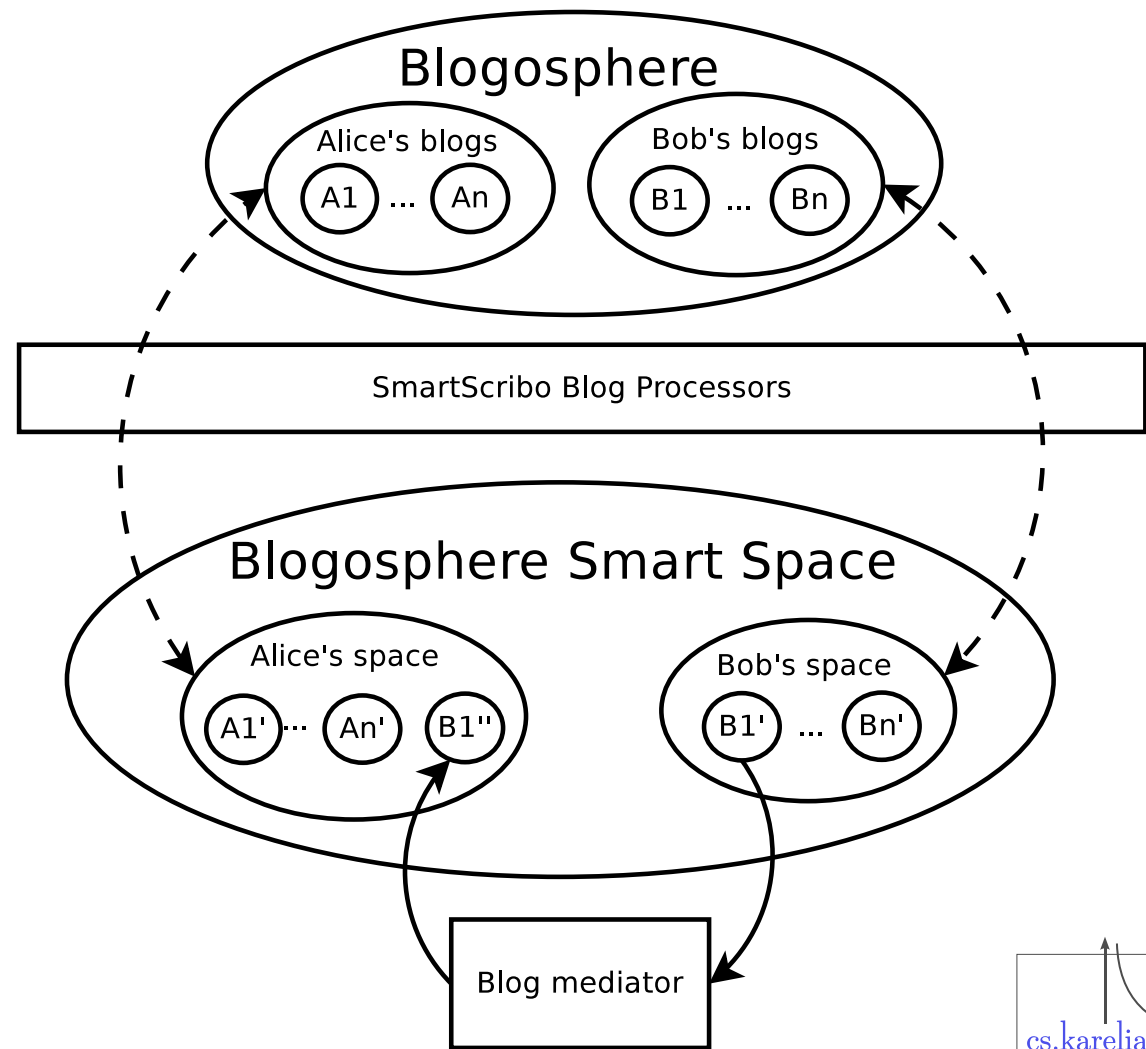# Composition methods: 3) blog mediator

Composition methods: 3) blog mediator

"+" advantages

- data access control
- additional processing
- several mediators

"-" disadvantages

- mediator can be overloaded
- concurrent mediators

Conclusion

Considered three ways of personal space compositions:

- data duplication

- ontologic link

- blog mediator

Any of these methods can be applied in SmartScribo

Plans: implementation of data duplication for accessing friends' blogs

Wiki: `http://oss.fruct.org/wiki/SmartScribo`

Source: `http://gitorious.org/smart-scribo`

Thank you for attention!

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