E² Participation: Electronically Empowering Citizens for Social Innovation through Agreement Technologies

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1 - Context and Concept
Electronic Participation (E²P) is a new approach to automate identity related
tasking patterns in a participatory network. E²P patterns are made possible through systems
associated with social innovation and energy innovation.

2 - E²P Underlying Agreement Technologies

- Argumentation
- Trust and Reputation

3 - Contributions

- For Computers Science
- For Governance
- For both

For both
Application of E²P in Real World scenarios in activities with
trust and reputation for knowledge items.

4 - E²P - A new perspective

- Argument Generation
- Argument Assessment
- Argument Visualization

5 - E²P: A new perspective

- Domain knowledge
- Organization Ontology Component
- Trust and Reputation Component
- Argument Assessment Component
- Argument Generation Component

NLP Component

- Users' Opinions Knowledge base (UOK)
- 1) Parser / Tokenizer
- 2) Semantic & sentiment analysis
- 3) Multilingual analysis

User-posted opinions

- e.g. in blogs, emails, social media annotating tools, etc.
- Raw text in natural language, with labels identifying username, provenance, timestamp, etc.

Trust and Reputation

- Evaluates trust and reputation for knowledge items

Decision makers and users

- Arguments providing decision support, based on GUI environment

E²P Framework

Instantiation Procedure