



Romanian Competences in Software Services



Aims

- Identify researchers/research groups in Romania which are active in the field of software services
- Analyze the distribution of results obtained by researchers from Romania by different topics related to software services
- Analyze the evolution of the interest in software services topics measured by using the number of papers having Romanian (co)-authors



Methodology

- Data sources:
 - SCOPUS (<http://www.scopus.com>)
 - ISI Web of Knowledge (<http://www.isiwebofknowledge.com>)
- Search criteria:
 - Keywords related to service software related topics
 - Works in the field of computer science and engineering
 - Author(s) affiliation in Romania
- Example of Scopus query:

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ALL("service" AND ("software service" OR "automatic composition" OR "service composition" OR
"service discovery" OR "automatic negotiation" OR "context aware" OR "dynamic service" OR
"interoperability" OR "mobile service" OR "nomadic service" OR "service cycle" OR "open
source" OR "quality of service" OR "service repository" OR "reusable services" OR "service
adaptation" OR "service deployment" OR "service engineering" OR "service level agreement"
OR "SLA" OR "service platform" OR "software as a service" OR "SaaS"))
AND (AFFILCOUNTRY(romania))
AND (SUBJAREA(comp) OR SUBJAREA(engi))
```



Methodology

Keywords / obj 1.2. FP7-ICT WP:

- access right
- automatic composition
- automatic discovery, service discovery
- automatic negotiation, negotiation
- compose, service composition, composite service
- configure, service configuration
- context aware, contextual,
- dynamic service
- front end, service front end
- interoperability
- life cycle, service cycle
- mobile service, nomadic service
- open source, open source software
- quality of service, QoS
- reasoning
- repository, service repository
- response time
- reusable services
- scalable, scalability, scalable provision
- semantic
- service adaptation, adapt
- service deployment
- service engineering
- service level agreement, SLA
- service platform
- social network
- software as a service, SaaS, as a service

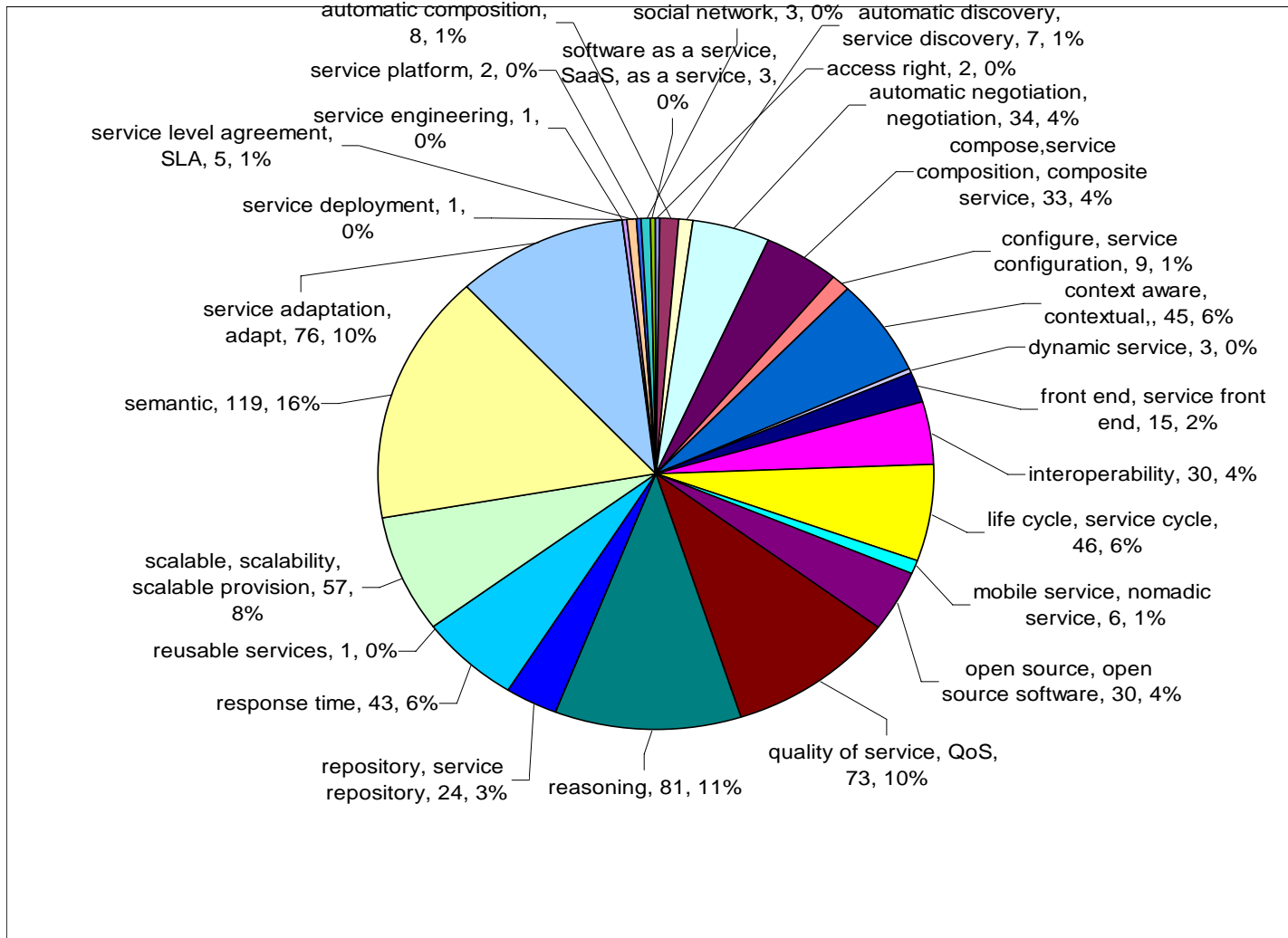


Summarizing the data

- Distribution of papers by topics
- Distribution of papers per authors
- Distribution of papers by institutions
- Distribution of papers by publication type



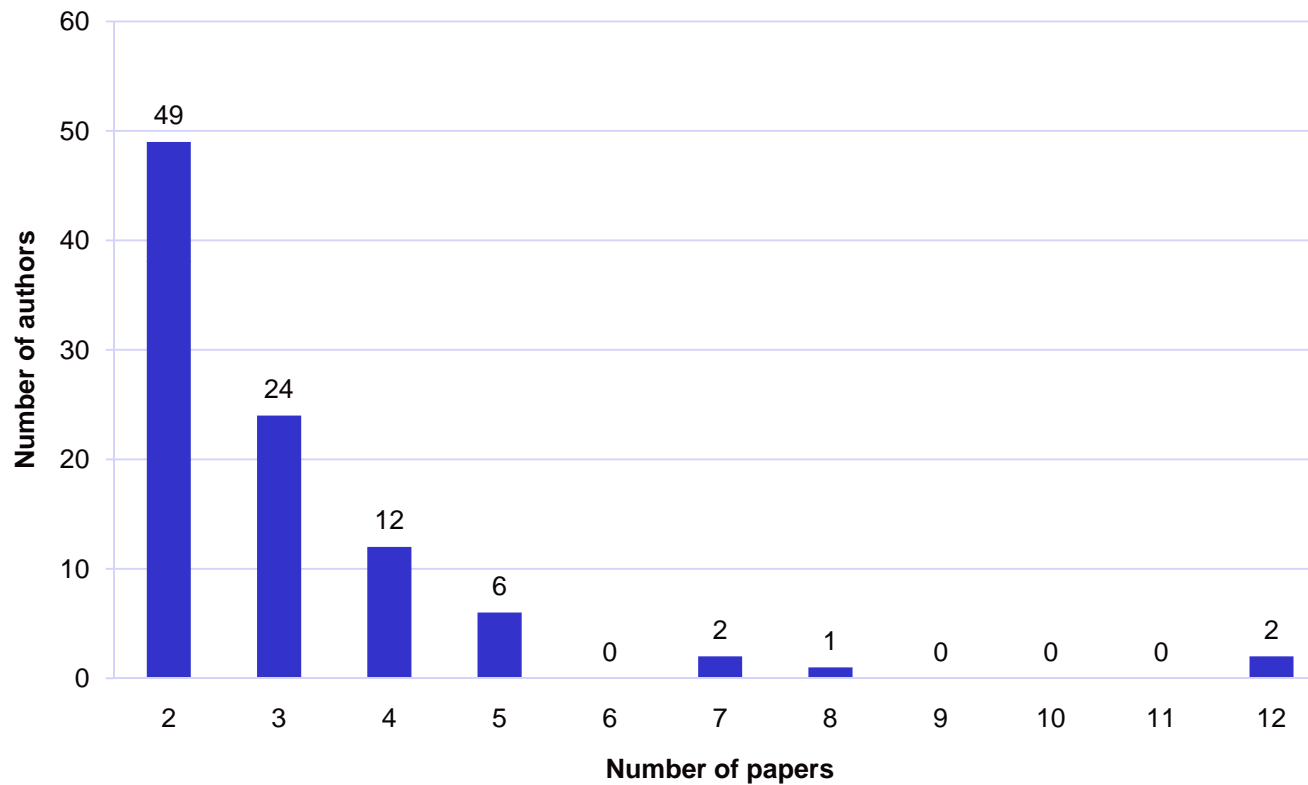
Distribution of papers by topics





Distribution of papers per authors

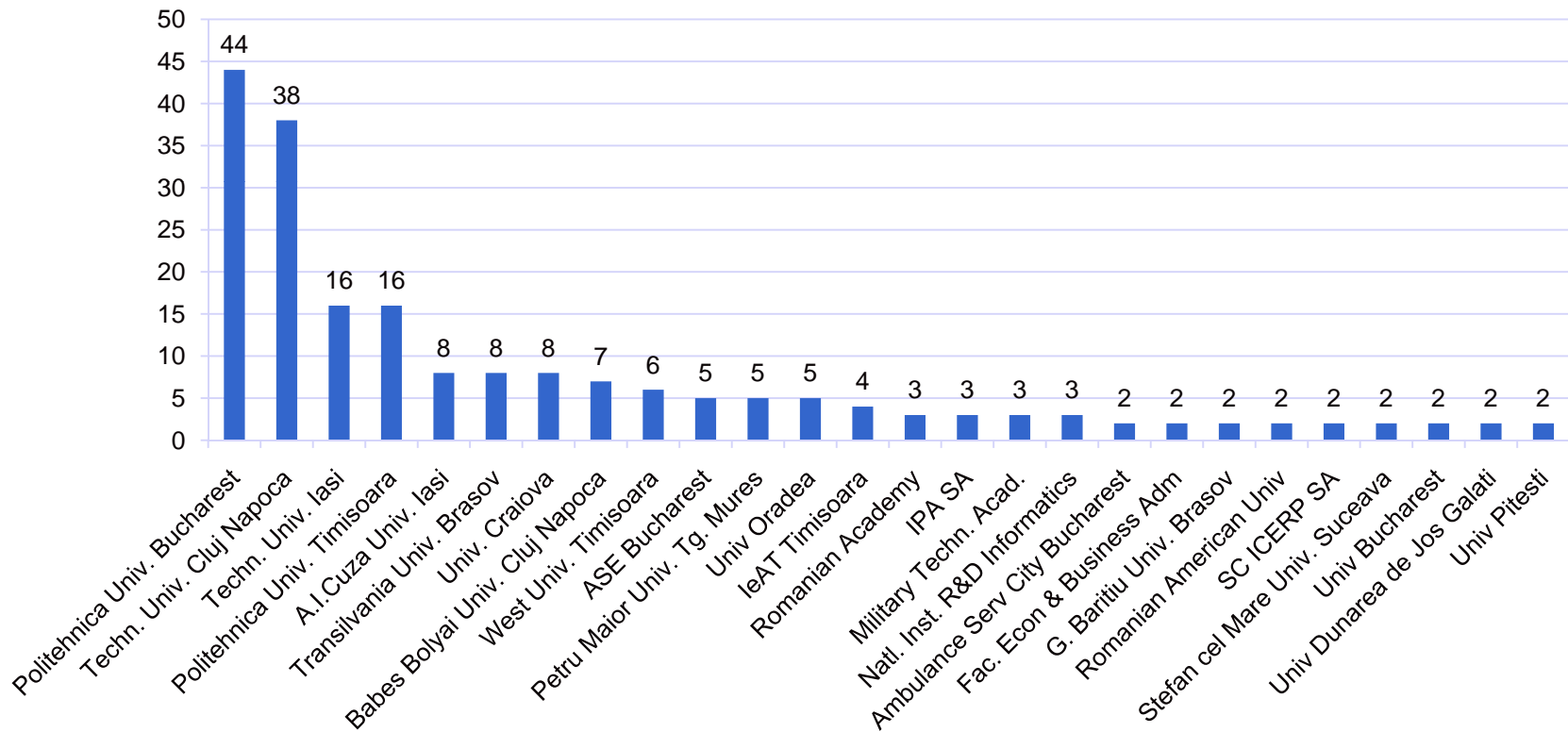
Distribution of papers per authors





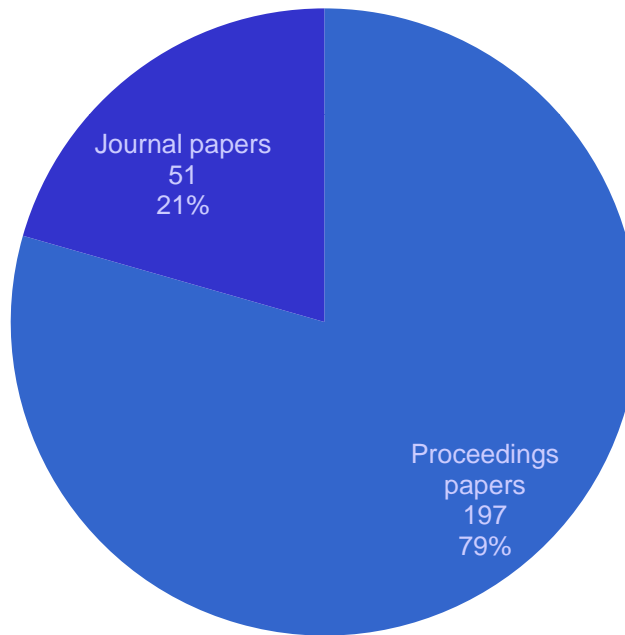
Distribution of papers by institutions

Distribution of papers by institutions





Distribution of papers by publication type





Distribution of papers by conferences

Conference	Number of papers
ROEDUNET IEEE Int. Conf. (Romania)	15
AQTR - IEEE Conf on Automation, Quality and Testing, Robotics (Romania)	13
EUROCON - Int. Conf. on Computer as a Tool (EUROCON)	4
SYNASC - Int. Symp. on Symb. and Numeric Alg. for Sci. Comput. (Romania)	4
ICCP - IEEE Conf on Intelligent Comp. Comm. and Processing	3
GPC - Int. Conf. on Grid and Pervasive Computing	2
Int. Conf. on Optimiz. of Electr.and Electronic Equipment	2
Int. Conf. on Software, Telecomm. & Computer Networks	2
IDC - Int. Symp. on Intelligent and Distr. Comput.	2
ISPDC - Int. Symp. on Parallel and Distr. Comput.	2
Int. Symp. on Signals. Circuits and Systems	2
Int. Workshop on Architect., Concepts and Techn. for Service Oriented Comp. ...	2



Evolution of the number of papers

Evolution of the number of publications on software services by Romanian authors

