

SOC Team

Service Oriented Computing

Laboratoire d'InfoRmatique en Image et Systèmes d'information

LIRIS UMR 5205 CNRS / INSA de Lyon / Université Claude Bernard Lyon 1 / Université Lumière Lyon 2 / Ecole Centrale de Lyon

The SOC research team works on the research challenges related to the use of the Service Oriented Computing paradigm to build more robust, open and flexible information systems that take advantage of the most recent technologies and trends such as the Web of Things, Cloud Computing, P2P, Big Data, Linked Data, etc. The team specifically focuses on:

- designing models and techniques related to the foundations of Web services that will ease their discovery and composition, in both transactional and non-transactional environments,
- designing and developing service oriented architectures for different application domains such as the healthcare, collaborative systems, web of things, cloud computing, etc.

Scientific skills and societal challenges

Scientific skills

- Discovery and composition of both data and software centric services
- Quality of service, fault tolerance, IT governance
- Security, privacy, trust, reputation, digital identity
- Internet of Things
- Interoperability of business services
- Development and deployment models for the Cloud

Societal challenges

- e-Government
- Personal information management and privacy protection
- Cloud computing
- Connected objects

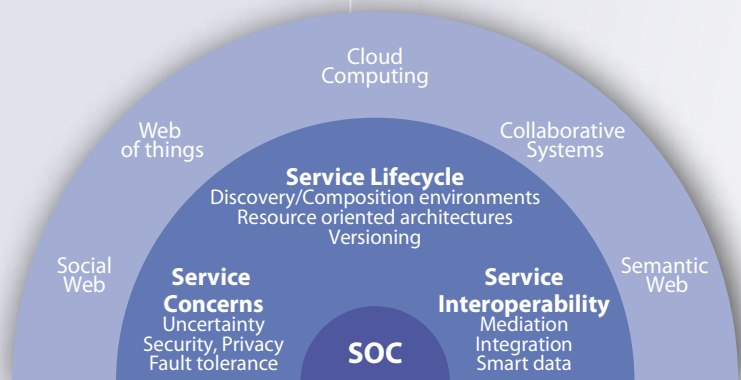
The team

Members

- 4 Professors
- 7 Associate Professors
- 14 PhD students

Defended PhD Thesis

- 4 per year in average



Highlights

- Participation to five European projects (two Tempus projects: MITCON (2007-10) and RTCCE (2010-13), UNITE FP7 (2010-13), NEBULA (2014-16), Action COST Keystone 2013-17),
- Coordination of two ANR-funded projects PAIRSE 2009-13 and ASAWoO 2014-17,
- Participation to the national project Process 2.0 (2009-12),
- Exploitation license issued to a French company in partnership with LST PRES Lyon 1,
- Experts for oversea projects: Slovenia (2012), Netherlands (2013), Kazakhstan (2013), Belgium (2012), Canada (2013), Portugal (2012, 2013) and Experts for the European Commission.

Contacts

Coordinator

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Softwares and platforms

- OASIS (Open Architecture for supporting Services, discovery and Composition) : Software platform for the development and the evaluation of research prototypes (<http://soc.univ-lyon1.fr/>)

Positioning

International context

- Experts for oversea projects: Slovenia (2012), Netherlands (2013), Kazakhstan (2013), Belgium (2012), Canada (2013), Portugal (2012, 2013),
- Experts for the European Commission, Evaluation of the IST (2010) projects and participation to several program committees of international conferences,
- Member of the network Action COST IC1302, European project Keystone - semantic KEYword-based Search on sTructured data sOurcEs (2013-2017).

National context

- Coordination of two ANR-funded projects PAIRSE 2009-13 and ASAWoO 2014-17 and partner in a third national project (Process 2.0 2009-12)
- GdR I3 ("Web services and Sphere" work group)

Regional context

- Participation to the organization of the Blend Conference funded by Grand Lyon
- LST Project (Lyon Science Transfer) funded by PRES-Lyon (2009-10), theme: "Data Integration Platform".
- BQR project (Quality Research Bonus) 2013 funded by Lyon-1 University, theme: "Data privacy in the Clouds"

Industrial partnerships

- EADS, Neez, Alter System X, Alternance SOFT, Alcatel Vacuum, PROSTEP, DATAKIT, CSTB, IRT système X, Amilstone, Springeo, Genigraph, Full Save, Semsoft, SWID, APITECH

International relationships

- Australia, Austria, Belgium, United Arab Emirates, United Kingdom, India (IBM), North Africa, Portugal, USA, Greece, Romania, Italy

Revue et conférences

- ACM Transactions on Internet technology
- IEEE Internet Computing
- SIGMOD Record
- IEEE Transactions on Service Computing
- IEEE Transactions on Automation science and engineering
- IEEE Systems Journal
- CAiSE : International Conference on Advanced Information Systems Engineering
- EDBT : International Conference on Extending Database Technology (demo)
- VLDB : International Conference on Very Large Data Bases (demo)
- IEEE SCC : IEEE International Conference on Services Computing
- IEEE ICWS : IEEE International Conference on Web Services
- ER : International Conference on Conceptual Modeling
- WISE : International Conference on Web Information System Engineering

