



Collaborative Networks in the Internet of Services

Recent developments under the umbrella of Future Internet offer new concepts and mechanisms to support a new generation of advanced collaborative networks. Particularly relevant is the consolidation of the Internet of Services and its associated infrastructures and related concepts such as service ecologies and service parks. Recent progress on Cyber Physical Systems induce new virtualization possibilities for resources and capabilities, leading to notions of Industrial Internet, Sensing Enterprise, Internet of Events, etc.

Moving from services provided by a single entity to more complex or integrated multi-stakeholder services requires new approaches in dynamic service composition and thus the effective consideration of the 'collaboration' perspective. This is a fundamental step in reducing the gap between the notions of software service and business service.

Collaborative Networks naturally benefit from such new possibilities, but they also bring important elements to the Future Internet at various levels, including structural and behavioural models, value systems and value creation, and the business perspective. On the other hand, development of the so-called Services Science adds clarification to the semantics of the service concept in which context synergies with collaborative networks need to be further explored.

The accumulated body of empiric knowledge and the size of the involved research community in Collaborative Networks provide the basis for leveraging the potential of new concepts and mechanisms in addressing big societal challenges and consolidating the scientific discipline on 'Collaborative Networks'. Such discipline is strongly multidisciplinary and the PRO-VE Working Conference is designed to offer a major opportunity to mix contributions from Computer Science, Engineering, Economics, Management or Socio- Human communities.

The main theme of PRO-VE'12 focuses on crucial aspects to empower Collaborative Networks as a main actor of change in society.

PRO-VE, as the most focused scientific / technical conference in the area, offers a major opportunity for the presentation and discussion of both latest research developments and industrial practice case studies. Following the IFIP international mission, the PRO-VE conference offers a forum for collaboration among different regions of the world. This conference continues a series of successful conferences of PRO-VE'99 (Porto, Portugal), PRO-VE 2000 (Florianópolis, Brazil), PRO-VE'02 (Sesimbra, Portugal), PRO-VE'03 (Lugano, Switzerland), PRO-VE'04 (Toulouse, France), PRO-VE'05 (Valencia, Spain), PRO-VE'06 (Helsinki, Finland), PRO-VE'07 (Guimarães, Portugal), PRO-VE'08 (Poznan, Poland), PRO-VE'09 (Thessaloniki, Greece), PRO-VE'10 (St. Etienne, France), and PRO-VE'11 (S. Paulo, Brazil).

Topics

A plurality of scientific communities in Computer Science, Engineering, Economics, Management and Socio-Human sciences are encouraged to submit. Both theoretical works and sound case studies are expected. The conference will include technical papers and discussion panels. Proposals for organizing associated events, namely by project consortia focused on the area of Collaborative Networks are welcome.

Future Internet – concepts and mechanisms

- Internet of Services
- Service infrastructures

Cloud Computing and Collaborative Networks

- Cloud computing architectures in support of collaboration
- Business approaches and models

Services Science

- Modelling and formalization
- Service ecologies and Service parks

Software services architectures

- Service composition
- Semantic service discovery

Collaborative Business Processes and Service Composition

- Integrated services / value-added services
- Business process and service composition

Collaborative Cyber Physical Systems

- CPS Infrastructures
- Sensing Enterprise and Internet of Events
- Collaborative CPS societies
- Behavioural issues and governance
- Typologies of collaborative behaviours
- Trust modelling and management
- Risk and uncertainty management
- Serious games in CN
- Affective computing in CN

Business models

- New models of value creation for Product-Service Systems
- Business models for service-oriented production networks
- Collaborative Networks and Big Societal Challenges
- Role of CNs in addressing big emerging challenges
- Case studies and new directions

Application areas (examples)

- Eco-Industrial Parks
- Healthcare collaborative systems
- Active Ageing Networks
- Ambient Assisted Living networks
- Distributed manufacturing networks
- Educational networks
- Transportation and mobility support networks
- Collaborative e-government
- Agribusiness networks
- Disaster rescue networks



Important dates

Main conference:

Abstracts submission: Now
Full paper submission: 15 Apr 2012
Acceptance notice: 13 May 2012
Camera ready submission: 31 May 2012

Acceptance of papers is based on the full paper (up to 8 pages). Each paper will be evaluated by three members of the International Program Committee. However, prospective authors should submit a short abstract in advance, in order to check if the proposed topic fits within the conference scope.

Proposal for special sessions and workshops are welcome. Main conference proceedings to be published by Springer. The best papers are selected to submit extended versions to 'Computers in Industry', 'Production Planning and Control' or 'Enterprise Information Systems'.

Applied developments/Industry track:

Short abstracts submission: 17 Jun 2012
Extended abstracts submission: 31 Jul 2012

