CHOReOS

Large Scale Choreographies for the Future Internet

ICT IP Project

Deliverable D9.3.1

Annual Report on CHOReOS Dissemination

1st year

http://www.choreos.eu

Project Number	:	FP7-257178
Project Title	:	CHOReOS Large Scale Choreographies for the Future Internet

Deliverable Number	:	D9.3.1
Title of Deliverable	:	Annual Report on CHOReOS Dissemination – 1st year
Nature of Deliverable	:	Report
Dissemination level	:	Public
Licence	:	Creative Commons Attribution 3.0 License
Version	:	A
Contractual Delivery Date	:	1st October 2011
Contributing WP	:	WP9
Editor(s)	:	Valérie Issarny (INRIA)
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Abstract

This report summarizes achievement of the CHOReOS project in terms of disseminating project's goals and results during the first year. It further provides links to the concrete material that has been disseminated so far, hence enabling the interested reader to get access to the published material to know more about CHOReOS.

Keyword list

Dissemination, Web presence, Publications, HAL

Document History

Version	Changes	Author(s)
V1	Contribution by partners about Y1 dissemination activities	All (see P. i)
V2	Integration of individual contributions and overall edition	Valérie Issarny (INRIA)
V3	Editorial revision	Valérie Issarny (INRIA)

Document Review

Review	Date	Ver.	Reviewers	Comments
Outline	15.09.11	1.0	Darius Silingas (NME)	-
Draft	30.09.11	2.0	Darius Silingas (NME)	-
QA	04.10.11	3.0	Darius Silingas (NME) Hugues Vincent (Thales) Catherine Nuel (OW2)	Editorial comments
PTC	12.10.11	A	PTC	Editorial comments

Glossary, acronyms & abbreviations

Item	Description
CA	Consortium Agreement
DL	Deliverable Leader
DOW	Description of Work
OSS	Open Source Software
WP	Work Package
WPL	Work Package Leader

Table of Contents

1. Introduction

As outlined in the project's DOW, the following dissemination activities are targeted toward raising awareness and further fostering the taking up of project results, as part of the dedicated task of WP9:

1. *Publishing and maintaining CHOReOS web site and a social network (i.e., dedicated sub-groups within two well established social network platforms: LinkedIn and Twitter);*
2. *Presenting and publishing CHOReOS-based papers in leading academic conferences;*
3. *Presenting CHOReOS at one or two leading industrial conferences and expositions. We will target events such as ICT, CeBIT, JavaOne, OOP, Software Engineering Today, Software Architect and new cloud-oriented events;*
4. *Organizing two open international CHOReOS workshops in the third (and final) year for presenting project results to: (i) the international software engineering community and (ii) open source developer community;*
5. *Preparing and publishing technical reports for disseminating final CHOReOS results in the final year.*

Obviously, concrete dissemination results are expected to become increasingly effective over the years, according to the project's RTD progress. Hence, in the first year, project dissemination has been mainly focused on the first activity listed above, i.e., publishing and maintaining CHOReOS web site and social network platforms, as already reported in Deliverable D9.1.

Still, the consortium has been very active regarding presentations and publications about CHOReOS, although the project is in the first year and hence has been concentrating on the design of the CHOReOS IDRE and associated elements, while publications require concrete artefacts for the sake of assessment and validation.

As for the other dissemination activities, they will be implemented in the next years, according to the project's plan.

Last but not least, dissemination about CHOReOS is actually supported by all the tasks of WP9 on "Technology transfer, Dissemination and Collaboration", beyond the task that is specifically devoted to dissemination and whose results are reported in this deliverable. Further information about the achievements of these related tasks may be found in the various Deliverables D9.*x*s

According to the above, the report is structured as follows:

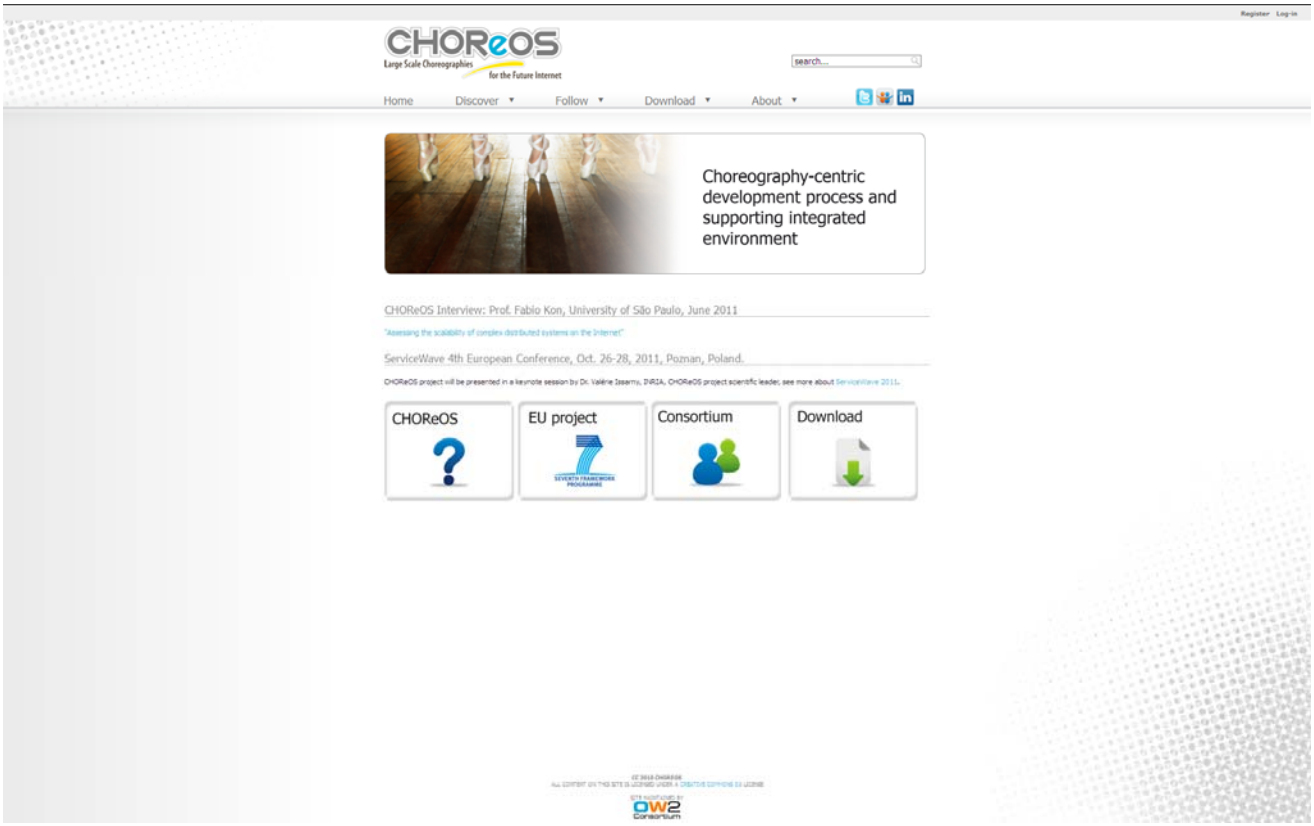
- Chapter 2 outlines achievements regarding dissemination using the Web and social networks.
- Chapter 3 concentrates on publication-related activities, further summarizing publications of the 1st year as well as participation of the CHOReOS consortium in conference committees, which help promoting awareness about the CHOReOS fields of study.
- Chapter 4 concludes with the CHOReOS dissemination plan for the next periods, which will in particular build on targeted implementation results.

2. CHOReOS Web Site and Social Networks

The first year of the project was dedicated to setting up the dissemination resources and starting to experience them. The development of these efforts was constrained by the limited availability of CHOReOS deliverables due to the early stage of the project. The second year will build upon this experience and leverage the growing availability of CHOReOS deliverables.

2.1. Developing the Web Site: www.choreos.eu

The CHOReOS public web site has been reported upon in Deliverable D9.1. The Web site has been designed so as to ease access to core information and further attract the interest of the user, by limiting verbose presentation and promoting timely release of information. The figure below illustrates the look & feel of the CHOReOS public Web site:



As stressed in Deliverable D9.1, unlike a printed brochure, a web site is a flexible artefact: it can be modified and updated at will. The web site evolves in its technical structure and in its content.

The structure of the site described in the « D9.1 Public CHOReOS website report » has evolved with the addition, for instance, of new sections such as “Project Deliverables” where we publish all public reports, and “Useful Resources” that provide external resources relevant for the CHOReOS project, coming from other projects or from the community at large. The evolution of the web site content is driven by the publication of: reports on CHOReOS events (including internal meetings, industry and academic/scientific events), the interviews of consortium members providing their perspectives and updates on the project, and the project deliverables (public reports, software, marketing collateral), as they become available. The Web site also features a Web page dedicated to “Related projects” so as to foster dissemination and possible collaboration across projects (see http://www.choreos.eu/bin/About/Related_Projects).

To conclude, the Web site registers increasing visits over months although it is expected that the number of visits will drastically increase as concrete results get released and made known to the relevant communities, in particular through the support of social networks.

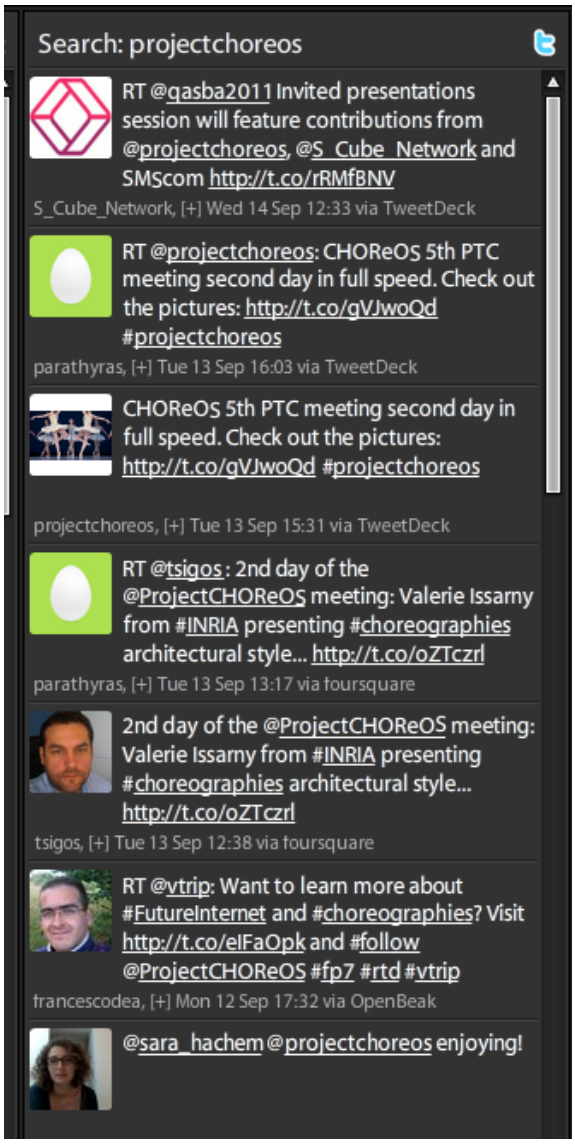
2.2. Social Networks: Twitter and SlideShare

CHOReOS uses Twitter and LinkedIn as its preferred social networks. On the other hand, the project team has decided that Facebook is not a priority communication channel for CHOReOS.

Twitter, LinkedIn and SlideShare icons are visible from all the CHOReOS web site pages, inviting visitors to follow the project activities or browse the past project public presentations. The use of social networks is gradually ramping up. However, progress is slow as the project has not yet delivered software.

We use SlideShare to disseminate the CHOReOS presentations. Like a social network, SlideShare is an on-line service allowing storage and comfortable viewing of slide-based presentations. The SlideShare viewer is embedded in the CHOReOS web site, the advantage is that presentations can be viewed with the comfort of SlideShare without leaving the CHOReOS web site. All consortium partners have been invited to use the SlideShare CHOReOS account for posting their CHOReOS presentations and linking them with other social networks, and in particular with Twitter.

As an illustration, the picture below gives an excerpt of CHOReOS twitts:



3. CHOReOS Presentations and Publications

CHOReOS targets dissemination in both leading academic venues and strong industrially-oriented events, so as to foster take up of CHOReOS results in the various communities of relevance.

Regarding leading academic venues that are targeted by the consortium, these have already been listed in the DOW, and cover the various areas studied by the project, i.e.:

- ***Software, services and systems engineering:***
  - ***Journals & magazines:*** *IEEE TSE, ACM TOSEM, SoSyM (Springer), JSS (Elsevier);*
  - ***Conferences:*** *ICSE, ACM SIGSOFT FSE, Joint ESEC/ACM FSE, IEEE ASE, FASE, IEEE ICST, IEEE/IFIP WICSA, ICSOC, IEEE ICWS, IEEE SCC, IEEE CAiSE, ACM SAC, ACM/IEEE MODELS, ServiceWave, …*
- ***Distributed systems, middleware, services, Internet, grids, clouds, mobile ad hoc and sensor networks:***
  - ***Journals & magazines:*** *IEEE TPDS, ACM TOCS, JPDC (Elsevier), CACM, IEEE Computer, IEEE TMC, PMC (Elsevier), IEEE Pervasive Computing, IEEE TSC, IEEE Internet Computing, Journal of Internet Services and Applications (Springer)…;*
  - ***Conferences:*** *ACM/IFIP/USENIX Middleware, IEEE ICDCS, IFIP DAIS, IEEE/IFIP DSN, ACM/USENIX Mobisys, IEEE PerCom, IEEE Pervasive, International Conference on Ubiquitous Computing, Internet of Things Conference, IEEE CCGrid, ACM Conference SenSys, IEEE DCOSS*

As for industry-focused exhibits, the following major industrial conferences and exhibitions were identified: ICT Event, CeBIT, OOP, JavaOne, JAX World, Software Engineering Today, Software Architect, …

Still, as we are in the first year of the project, results are mainly oriented toward state of the art analysis and IDRE components design. On the other hand, major publications are expected based on concrete, assessed results, which is to become available in the second year. Hence, presentation and publications in the first year have also targeted workshops, which are the venue of choice to exchange about vision and initial design.

Next to presentations and publications, another important dissemination-oriented activity lies in participating to conference organization committees and especially programme committees so as to raise awareness in the research fields of interest in the community.

Main achievements regarding presentations and publications are quantitatively summarized in the table below.

Dissemination path	Achievements
Industry-oriented presentations	5
Academic-oriented presentations	3
Journal papers & Book chapters	4
Conference papers	7
Workshop, posters & tutorials	9

The following sections then detail achievements of the CHOReOS consortium in the first year regarding Presentations at industry-oriented (Section 3.2) and academic events (Section 3.3), Publications (Section 3.4), and Programme committee membership (Section 3.5), where the provided lists are ordered according to the alphabetical order of contributing members.

Further, as discussed in Section 3.1, CHOReOS uses HAL for greater dissemination of the project's presentations and publications.

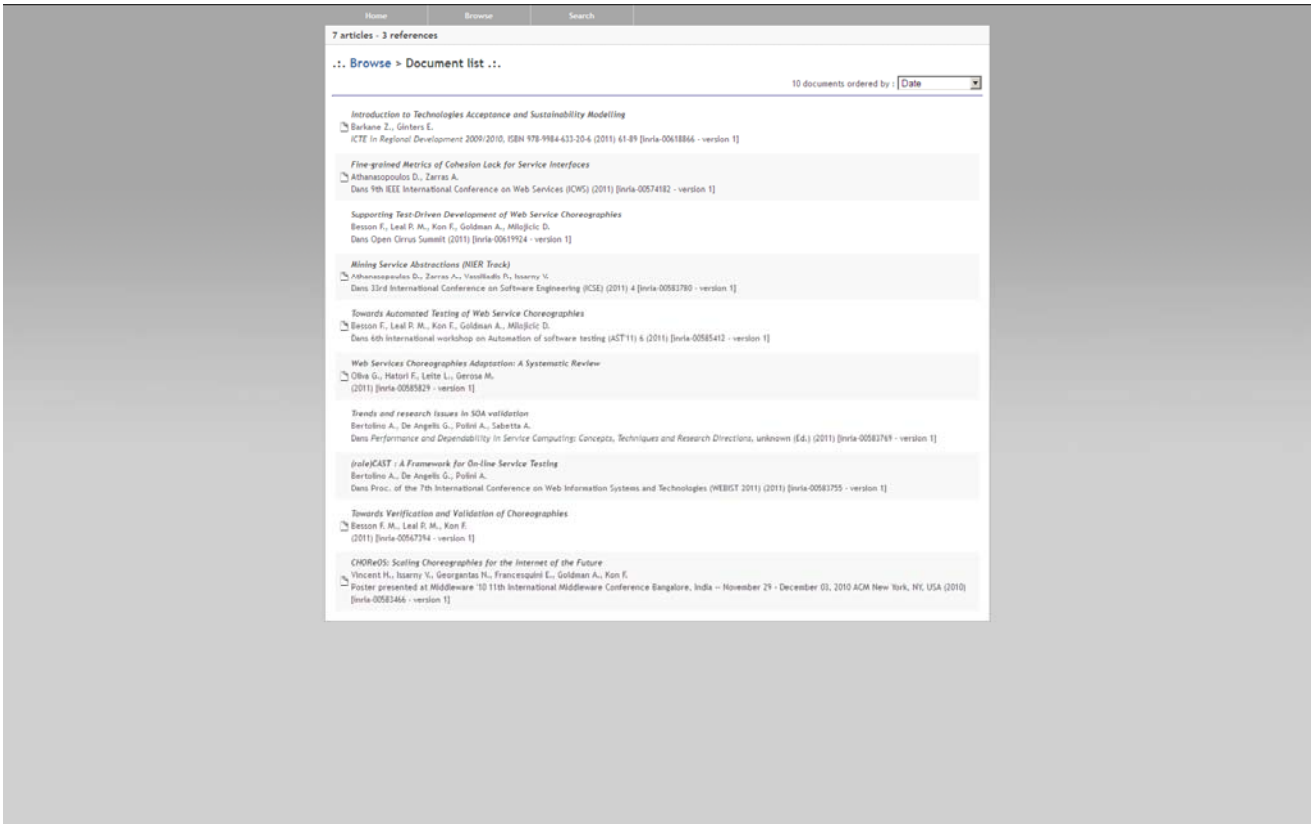
3.1. HAL: Multi-disciplinary Open Access Archive

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research papers, whether they are published or not, and for PhD dissertation. The documents may come from teaching and research institutions in France or abroad, or from public or private research centres.

As such, HAL allows for broad dissemination of scientific research papers (including research presentations).

CHOReOS publications may then be accessed through the CHOReOS web site (http://www.choreos.eu/bin/Download/Publications) but also directly at:

http://hal.inria.fr/choreos (see screen shot below).



3.2. Presentations and participation at industry-oriented events

CHOReOS partners gave presentation at industry-oriented events, which were so far centred on open source initiatives.

Presentations include one about CHOReOS and related OW2 initiative, at the OW2 Annual Conference:

- Pierre Chatel. "The CHOReOS FP7 project and the Future Internet OW2 initiative". OW2 Annual Conference 2010 "Open Source for Open Clouds", November 24th 2010,

Paris, France. The slides and video of the presentation are available at: http://www.ow2.org/view/Events2010AnnualConference/Program

CHOReOS partners further participated to the following events:

- Felipe Besson, Pedro Leal, Fabio Kon, Alfredo Goldman, Dejan Milojicic. Towards Automated Testing of Web Service Choreographies. Poster in FISL 12 - International Free Software Forum 2011, Porto Alegre, Brazil.
- Felipe Besson, Guilherme Nogueira, Leonardo Ferreira Leite. Opensource framework for web service testing with dynamic clients creation. Talk in FISL 12 - International Free Software Forum 2011, Porto Alegre, Brazil.
- Emilio Francesquini, Felipe Besson, Leonardo Ferreira Leite. Web Service Orchestrations. Talk in FISL 12 - International Free Software Forum 2011, Porto Alegre, Brazil.
- USP Choreos Group. A Service-Oriented Middleware for the Ultra Large Scale Future Internet. Poster in FISL 12 - International Free Software Forum 2011, Porto Alegre, Brazil.

3.3. Presentations at academic events

Besides the presentations associated with journal and workshop publications given in the next section, the following CHOReOS presentations were given in the first year:

- Andrea Polini. The CHOReOS Project.
  Presentation at MeTTeG 2011 http://conferences.cs.unicam.it/metteg11/
- Andrea Polini. Choreographies and Testing for Quality Assurance - The CHOReOS way for the Future Internet.
  Presentation at QASBA 2011. http://www.inf.usi.ch/phd/bianculli/qasba2011/
- Darius Silingas. Model-Driven Service Choreographies in the Future Internet.
  The 11th IFIP Conference one-Business, e-Service, e-Society (I3E 2011)
  October 12th - 14th[1], Kaunas, Lithuania. http://isd.ktu.lt/i3e2011/#key_notes

3.4. Publications

The following sections list the publications of the project in the first year by major categories of venue.

3.4.1. Journals and Book chapters

- Antonia Bertolino, Guglielmo De Angelis, Sampo Kellomäki, Andrea Polini. Enhancing Trustworthiness within Service Federations by Continuous On-line Testing. IEEE COMPUTER. 2011.
- Antonia Bertolino, Guglielmo De Angelis, Andrea Polini, Antonino Sabetta, Valeria Cardellini, Emiliano Casalicchio, Kalinka Regina, J.L. Castelo Branco, Julio Cezar Estrella, Francisco Jose Monaco. Trends and research issues in SOA validation. Performance and Dependability in Service Computing: Concepts, Techniques and Research Directions, 2011.
- Valérie Issarny, Nikolaos Georgantas, Sara Hachem, Apostolos Zarras, Panos Vassiliadis, Marco Autili, Marco Aurélio Gerosa, Amira Ben Hamida. Service-Oriented Middleware for the Future Internet: State of the Art and Research Directions. Journal

[1] This presentation formally falls under Year 2 but it is listed here as the presentation was prepared in the 1st year.

of Internet Services and Applications (JISA) – 2011. ISSN: 1867-4828 (print version). ISSN: 1869-0238 (electronic version). Online First: June 2011.

- Sherif Sakr, Anna Liu, Daniel Batista, Mohammad Alomari. A Survey of Large Scale Data Management Approaches in Cloud Environments. *IEEE Communications Surveys & Tutorials*, IEEE, 2011, 13 (3), pp. 311-336.

3.4.2. Conferences

- Dionysis Athanasopoulos, Apostolos Zarras, Panos Vassiliadis, Valérie Issarny. Mining Service Abstractions (NIER Track). *33rd International Conference on Software Engineering (ICSE)*, May 2011, Hawaii, United States.
- Dionysis Athanasopoulos, Apostolos Zarras. Fine-grained Metrics of Cohesion Lack for Service Interfaces. 9th IEEE International Conference on Web Services (ICWS), Jul 2011, Washington, United States.
- Antonia Bertolino, Guglielmo De Angelis, Andrea Polini. (role) CAST: A Framework for On-line Service Testing. Proc. of the 7th International Conference on Web Information Systems and Technologies (WEBIST 2011), May 2011, Noordwijkerhout, Netherlands.
- Egils Ginters, Zane Barkane, Hugues Vincent. Systems Dynamics Use for Technologies Assessment. The 22th European Modeling & Simulation Symposium (EMSS 2010), Oct 2010, Fes,Morocco. DIPTEM University of Genoa, ISBN2-952474-78-8, pp. 357-363.
- Marcelo Medeiros Eler, Antonia Bertolino, Paulo Cesar Masiero. More Testable Service Compositions by Test Metadata. International Symposium on Service-Oriented System Engineering, Dec 2011, Irvine, United States.
- Pengcheng Zhang, Henry Muccini, Andrea Polini, Li Xuandong. Run-time Systems Failure Prediction via Proactive Monitoring. Automated Software Engineering (ASE 2011), Nov 2011, Lawrence, Kansas, United States.
- Thiago Teixeira, Sara Hachem, Valérie Issarny. Service Oriented Middleware for the Internet of Things: A Perspective (Invited). Service Wave 2011.

3.4.3. Workshops and posters

- Marco Autili, Davide Di Ruscio, Paola Inverardi, James Lockerbie, Massimo Tivoli. A Development Process for Requirements Based Service Choreography. Service-Oriented Computing: Consequences for Engineering Requirements Workshop co-located with the 19th IEEE International Requirements Engineering Conference, Aug 2011, Trento, Italy.
- Zan Barkane, Egils Ginters. Introduction to Technologies Acceptance and Sustainability. Annual Proceedings ICTE in Regional Development 2009/2010, Socio-technical Systems Engineering Institute, ISBN 978-9984-633-20-6, 2011, pp. 61-89.
- Felipe Besson, Pedro Leal, Fabio Kon, Alfredo Goldman, Dejan Milojicic. Towards Automated Testing of Web Service Choreographies. Poster in AST '11 - 6th international workshop on Automation of software test. Waikiki, Honolulu, HI, USA, 2011. ACM.
- Felipe Besson, Pedro Leal, Fabio Kon, Alfredo Goldman, Dejan Milojicic. Supporting Test-Driven Development of Web Service Choreographies. Poster in Open Cirrus Summit, Moscow, Russian, 2011. IEEE.

- Felipe Besson, Pedro Leal, Fabio Kon, Alfredo Goldman, Dejan Milojicic. Towards Automated Testing of Web Service Choreographies. Paper presentation in AST '11 - 6th international workshop on Automation of software test. Waikiki, Honolulu, HI, USA, 2011. ACM.
- Felipe Besson, Pedro Leal, Fabio Kon, Alfredo Goldman, Dejan Milojicic. Supporting Test-Driven Development of Web Service Choreographies. Paper presentation in Open Cirrus Summit, Moscow, Russian, 2011. IEEE.
- Hugues Vincent, Valérie Issarny, Nikolaos Georgantas, Emilio Francesquini, Alfredo Goldman, Fabio Kon. CHOReOS: Scaling Choreographies for the Internet of the Future. Poster in 5th MW4SOC - Workshop of the 11th International Middleware Conference. Bangalore, India. 2010.

3.4.4. Tutorials

- Fabio Kon, Emilio Francesquini. Web Service Orchestrations and Choreographies. Tutorial in the Brazilian Congress on Software'2010, Salvador, Brazil.
- Gustavo Ansaldi Oliva, Mauricio Finavaro Aniche, Marco Aurélio Gerosa. Short Course on Software Evolution in the Brazilian Congress on Software'2011.

3.5. Programme committees

The following members took part in programme committees of the listed events:

- Daniel Batista: IEEE 3rd Latin-American Conference on Communications (LATINCOM) 2011, Brazilian Workshop on Performance of Computer and Communication Systems (WPerformance) 2011, XII Brazilian Workshop on Free Software (WSL) 2011.
- Antonia Bertolino: ICSOC 2011 - The Ninth International Conference on Service Oriented Computing, 4th IEEE International Conference on Software Testing, Verification and Validation (ICST 2011), IEEE 6th International Symposium on Service-Oriented System Engineering SOSE 2011, of The 14th International ACM SIGSOFT Symposium on Component Based Software Engineering (CBSE-2011), Special Theme: Components In and For Dynamic Environments (PC co-chair).
- Marco Gerosa: Brazilian Symposium of Components, Architecture and Reuse.
- Nikolaos Georgantas: QASBA'11, M-MPAC'11, AmI-11, CFSE'11, MW4SOC'11, IEEE NAS 2011, SSC'11, ICSOFT'11, ICSOC PhD symposium 2011, MAASC'11.
- Alfredo Goldman: Brazilian Symposium on Computer Networks and Distributed Systems'2011, ACM Symposium on Applied Computing - Cloud Computing track'2011, IEEE International Symposium on Network Computing and Applications'2011.
- Paola Inverardi: FASE 2011: Fundamental Approaches to Software Engineering, ICSE 2011: ACM/IEEE 33rd International Conference on Software Engineering, New idea at ESEC-FSE 2011: The 8th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, MODELS 2011: ACM/IEEE 14th International Conference on Model Driven Engineering Languages and Systems.
- Valérie Issarny: ESEC/FSE'11, ESWC'11 Mobile web track, EWDC'11, FASE'11, FMOODS'11, ICDCS'11, ICSOC'11, ISARCS'11, MAASC'11, Middleware'10&11, MW4SOC'10&11, ServiceWave'11, SESENA'11.

- Fabio Kon: ACM/IFIP/USENIX International Middleware Conference'2011 (PC co-Chair), Brazilian Symposium on Computer Networks and Distributed Systems'2011, ACM Symposium on Applied Computing - Cloud Computing track'2011.
- Andrea Polini: Quality Assurance for Service-based Applications (QASBA 2011) International Workshop at ECOWS 2011 (PC co-chair).
- Darius Silingas: 17th International Conference on Information and Software Technologies, 1st International Workshop on Alignment of Business Process and Security Modelling.
- Massimo Tivoli: CBSE 2011: 4th International ACM SIGSOFT Symposium on Component Based Software Engineering, CAMPUS 2011: 4th DisCoTec Workshop on Context-aware Adaptation Mechanisms for Pervasive and Ubiquitous Services, EternalS'11: 1st International Workshop on Eternal Systems, WAS4FI'11: 1st International Workshop on Adaptive Services for the Future Internet.
- Apostolos Zarras: ICSE 2011: ACM/IEEE 33rd International Conference on Software Engineering.

4. Conclusion

While the CHOReOS project has achieved good results in terms of dissemination despite being in its first year, dissemination achievements are expected to significantly grow in the 2nd and even more 3rd year, in particular due to available software prototypes.

Concretely, dissemination activities will be along the line of the objectives recalled in the introduction:

1. **CHOReOS web site and social networks**: these are expected to become increasingly lively, benefiting from RTD achievements and especially release of software prototypes, as well as other dissemination results that will be pro-actively advertised on the CHOReOS web and social networks.
2. **Publications**: CHOReOS publications will increasingly target leading venues, such as the ones listed in the introduction.
3. **Presentations at leading industrial conferences and expositions**. Such presentations will be planned during the 2nd year, in close connection with CHOReOS activities in the area of open source software community building.
4. **Organization of 2 open international CHOReOS workshops**: The CHOReOS workshops are planned to be held in the project's 3rd year. However, organization will start during the 2nd year, in particular selecting the events with which the workshops should be co-located for greater impact, as well as preparing the calls for contributions for early publicity.
5. **Final dissemination reports**: This activity will be undertaken during the 3rd year, building upon the various CHOReOS results and supporting material.