Remo Pareschi / Publications and Patents / April 22, 2014

Edited volumes

Collective Intelligence (Intelligent Systems (Sistemi Intelligenti), Vol. 3, Year XXVI)
Remo Pareschi, Vito Trianni (Editors), December 2014
Il Mulino; forthcoming

The Extended Mind (Intelligent Systems (Sistemi Intelligenti), Vol. 1, Year XXIV)
Massimo Marraffa, Remo Pareschi (Editors), April 2012
Il Mulino; ISBN: 978-88-15-23686-9

Dynamic Worlds: From the Frame Problem to Knowledge Management (Applied Logic Series, V. 12)
Remo Pareschi, B. Fronhofer (Editors), February 1999
Kluwer Academic Publishers; ISBN: 0792355350

Information Technology for Knowledge Management
Uwe Borghoff, Remo Pareschi (Editors) July 1998
Springer Verlag; ISBN: 3540637648

Object-Oriented Programming : 8th European Conference, Ecoop '94 Bologna, Italy, July 4-8, 1994 : Proceedings (Lecture Notes in Computer Science)
Mario Tokoro, Remo Pareschi (Editors), August 1994,
Springer Verlag; ISBN: 0387582029

Papers

2014

M. Rossetti, R. Pareschi, F. Stella, F. Arcelli Fontana
Integrating Knowledge and Concepts in Large Content Networks.
New Generation Computing, 33(1), 2014.
(Special issue on *Propagation Phenomena in Complex Networks*, D. Krol editor).

2011

F. Arcelli Fontana, F. Formato, R. Pareschi, F. Stella
On the Cognitive Evolution of Collective Intelligences: augmenting social interaction with cognitive agents.
Intelligent Systems (Sistemi Intelligenti), Vol. 2, Year XXIV, 2011.

2010

F.Arcelli, F.Formato and R.Pareschi
Information-driven Collective Intelligences.
Proceedings of the International Conference on Computational Collective Intelligences, (ICCCI'10), Taiwan, Nov 2010.

2009

F.Arcelli, F.Formato, R.Pareschi
Ontology Engineering: Co-evolution of Complex Networks with Ontologies.
Proceedings of the Workshop on Ontologies for e-Technology (OET 2009), Milan, Italy, May 2009.

F.Arcelli, F.Formato, R.Pareschi
Boosting Concept Discovery in Collective Intelligences.
Proceedings of the International Conference on Brain Informatics (BI'09), Beijing, China, October 22-24, Lecture Notes on Artificial Intelligence, Springer, 2009.

F.Arcelli, F.Formato, R.Pareschi
Equalizing the Structures of Web Communities in Ontology Development Tools.
Proceedings of the International Conference on Intelligent Systems Design and Applications, (ISDA'09), Pisa, November 2009.

R. Pareschi
Co-evolution of Communities and Ontologies.
Intelligent Systems (Sistemi Intelligenti), Vol. 3, Year XX, 2009.

2008

F. Arcelli, F. Formato, R. Pareschi
Reflecting Ontologies into Web Communities.
Proceedings of the International Conference on Intelligent Agents, Web Technologies and Internet Commerce (IAWTIC'2008), Vienna, IEEE Computer Society, 2008.

2007

R. Pareschi
Modeling Rationality and Emergence in Dynamic Networks.
In Proc. of the ISCE Conference on Complex Systems,
Stellenbosch, South Africa, 2007.

2006

From Enterprises-as-Networks to Networks of Enterprises:
a modeling approach to enterprise evolution based on logi.
In Proc. of the Workshop on Emergence, Evolution and Generation,

European Conference on Complexity, Oxford, UK, 2006.

2003

R. Pareschi
Knowledge Management and Semantic Web.
Intelligent Systems (Sistemi Intelligenti), Vol. 2, Year XI, 2003.

1999

F. Arcelli, F. Formato, and R. Pareschi
Computational Models of Information Re-use.
The Computer Journal, 42(7), 1999.

1998

U. M. Borghoff, R. Pareschi, F. Arcelli, and F. Formato
Constraint-based protocols for distributed problem solving.
Science of Computer Programming, 30(1-2), 1998.

J.-M. Andreoli, F. Pacull, D. Pagani, R. Pareschi
Multiparty negotiation of dynamic distributed object services.
Science of Computer Programming, 31(2-3),1998.

F. Arcelli, F. Formato, and R. Pareschi
A Measure of Information Re-use for Distributed Protocols
Computer Communications, Vol. 21, 1998.

1997

J.-M. Andreoli, S. Bistarelli, U. M. Borghoff, U. Montanari, R. Pareschi, F. Rossi
Constraints and agents for a decentralized network infrastructure.
In Proc. of Workshop on Constraints and Agents, AAAI, 1997.

J.-M. Andreoli, F. Pacull, R. Pareschi
XPect: a Framework for Electronic Commerce.
IEEE Internet Computing, 1(4), 1997.

J-M. Andreoli, R. Pareschi and T. Castagnetti
Static analysis of linear logic programming.
New Generation Computing, 15(4), 1997.

J.-M. Andreoli, U. M. Borghoff, and R. Pareschi
Signed Feature Constraint Solving.
Proc. of the 3rd International Conference on the Practical
Application of Constraint Technology, London, 1997.

U. M. Borghoff, P. Bottoni, P. Mussio, R. Pareschi
Reflective agents for adaptive workflows.
Proc. of the 2nd International Conference on the Practical
Application of Intelligent Agents and Multiagent Technology, London, 1997.

U. M. Borghoff, E. R. Hilf, R. Pareschi, T. Severiens, H. Stamerjohans, J. Willamowski
Agent-based document retrieval for the european physicists: a project overview.
Proc. of the 2nd International Conference on the Practical
Application of Intelligent Agents and Multiagent Technology, London, 1997.

U. M. Borghoff, R. Pareschi
Information Technology for Knowledge Management.
Journal of Universal Computer Science, 3(8), 1997.

A. Grasso, J.-L. Meunier, D. Pagani, R. Pareschi
Distributed coordination and workflow on the World Wide Web.
International Journal of Computer Supported Cooperative Work, 6, 1997.

1996

J.-M. Andreoli, U. M. Borghoff, R. Pareschi
The constraint-based knowledge broker model: semantics, implementation and analysis.
Journal of Symbolic Computation. Vol. 22, 1996.

J.-M. Andreoli, S. Freeman, R. Pareschi
The coordinaton language facility: coordination of distributed objects.
Theory and Practice of Object Systems,
special issue on Distributed Object Management, 2(3),1996.

J.-M. Andreoli, R. Pareschi
Integrating computational paradigms for flexible client-server communication.
Position paper published on ACM Computing Surveys, special issue on programming paradigms, June 1996.

J.-M. Andreoli, R. Pareschi
Flexible cordination of distributed active objects.
Position paper presented at the ACM workshop on strategic computing directions, Cambridge, MS, 1996

U. M. Borghoff, P. Bottoni, P. Mussio, R. Pareschi
A systemic metaphor of multi-agent coordination in living systems.
In Proc. 19th European Simulation Multiconf. (ESM'96), Budapest, Hungary, 1996.

U. M. Borghoff, R. Pareschi, H. Karch, M. Nohemeier, J. Schlichter
Constraint-based information gathering for a network publication system.
Proc. of the 1st International Conference on the Practical
Application of Intelligent Agents and Multiagent Technology, London, 1996.

N. Glance, D. Pagani, R.Pareschi
Generalized Process Structure Grammars for flexible representations of work.
Proceedings of Computer Supported Collaborative Work'96, Cambridge, 1996.

1995

J.-M. Andreoli, U. M. Borghoff, R. Pareschi, J. Schlichter
Constraint agents for the information age.
Journal of Universal Computer Science, 1(12), 1995.

1994

J.-M. Andreoli, U. M. Borghoff, R. Pareschi
Constraint-based knowledge brokers.
In Proc. of PASCO'94, Linz, Austria, World Scientific, 1994.

J.-M. Andreoli, H. Gallaire, R. Pareschi
Rule-based Object Coordination.
In Proc. of the ECOOP'94 workshop on Models
and Languages for Coordination of Parallelism and Distribution,
Lecture Notes in Computer Science (924), Springer,
Bologna, Italy, 1994.

1993

J.-M. Andreoli, P. Ciancarini, R. Pareschi
Interaction Abstract Machines.
In G. Agha, A. Yonezawa, P. Wegner, editors,
Research Directions in Concurrent Object Oriented Programming, MIT Press, 1993.

J.-M. Andreoli, L. Leth, R. Pareschi, and B. Thomsen
True concurrency semantics for a logic programming language based on broadcast communication.
In Proc. of TAPSOFT'93,
Lecture Notes in Computer Science (668), Springer ,
Orsay, France, 1993.

J.-M. Andreoli, R. Pareschi, T. Castagnetti
Abstract interpretation of LO programs.
Proceedings of ILPS'93, MIT Press, 1993.

1992

M. Bourgois, J.-M. Andreoli, R. Pareschi
Extending objects with rules, composition and concurrency:

the LO experience, OOPSLA'92 workshop on Object-Oriented Programming Languages, 1992.

1991

J.-M. Andreoli, R. Pareschi
Linear Objects: logical processes with built-in inheritance.
New Generation Computing, 9(3-4), 1991.

J.-M. Andreoli, R. Pareschi
Communication as Fair Distribution of Knowledge.
In Proc. of OOPSLA'91, ACM Press, Phoenix, Az, U.S.A., 1991.

J.-M. Andreoli, R. Pareschi, M. Bourgois
Dynamic Programming as Multi-agent Programming.
In Proc. of the OOPSLA'90/ECOOP'91 workshop on Object-based concurrent computing,
Lecture Notes in Computer Science (612), Springer , Geneve, Switzerland, 1991.

1990

J.-M. Andreoli, R. Pareschi
Formulae as Active Representation of Data.
In Actes du 9eme Seminaire sur la Programmation en Logique,
Tregastel, France, 1990.

J.-M. Andreoli, R. Pareschi
Linear Objects: logical processes with built-in inheritance.
In Proc. of the 7th International Conference on Logic Programming, MIT Press,
Jerusalem, Israel, 1990.

J.-M. Andreoli , R. Pareschi
LO and behold! concurrent structured processes.
In Proc. of OOPSLA/ECOOP'90, ACM Press, Ottawa, Canada, 1990.

J.-M. Andreoli, R. Pareschi.
Logic programming with sequent systems: a linear logic approach.
In Proc. of the Workshop on Extensions of Logic Programming,
Lecture Notes in Artificial Intelligence 475, Springer ,
Tuebingen, Germany, 1990.

R. Pareschi, D. Miller
Extending definite clause grammars with scoping constructs.
In Proc. of the 7th International Conference on Logic Programming,
MIT Press, Jerusalem, Israel, 1990.

1988

R. Pareschi
A Definite Clause version of Categorial Grammar.
In Proc. of the 26th Annual Meeting of the Association for Computational Linguistics, Buffalo, U.S.A., 1988

1987

R. Pareschi, M. Steedman
A Lazy Way to Chart-parse with Categorial Grammars.
In Proc. of the 25th Annual Meeting of the Association for Computational Linguistics, Stanford, U.S.A., 1987

PhD Thesis

Type-driven Natural Language Analysis, Department of Artificial Intelligence, University of Edinburgh

Also available as technical report from University of Pennsylvania, Department of Computer and Information Sciences
http://repository.upenn.edu/cgi/viewcontent.cgi?article=1742&context=cis_reports

Patents

Systems and methods providing flexible representations of work
Patent number: 6725428
Abstract: Workflow techniques for coordinating organizational processes by providing flexible representations of work using generalized process structure grammars (GPSG). The techniques take into account that, in reality, work evolves both horizontally, in the co-operation of causally unrelated, but information-sharing tasks, and vertically, in the co-ordination of causally-dependent activities. Process modeling involves (1) viewing documents and tasks as duals of each other, capturing horizontal co-operation; and (2) exploiting constraints to express the soft dependencies among related activities and documents within the framework of generative rule-based grammars for processes, thus handling vertical co-ordination. This alleviates or avoids rigidity arising in conventional workflow solutions in part from viewing work processes as unfolding along a single line of temporally chained activities.
Type: Grant
Filed: November 14, 1997
Issued: April 20, 2004
Assignee: Xerox Corporation
Inventors: Remo Pareschi, Natalie S. Glance, Daniele Pagani, Jean-Marc Andreoli, Stefania Castellani, Gunnar Teege

System and method for transferring attribute values between search queries in an information retrieval system
Patent number: 6434546
Abstract: An information retrieval system for retrieving information from multiple information sources. The information retrieval system provides for the building of dynamic queries through the use of query

channels. A query channel permits the passing of attributes of the search results between different queries. The query channel can cause the automatic passing of the attributes, or it can be user controlled (breakpoints). Further, the query results may be transformed so that they are in the context of the target query (computational transformations). For example, the results may be translated or reformatted into a form utilized by the target query. Query channels are created based on graphical representations of queries and their attributes. A simple drag and drop operation, wherein an attribute is selected and dragged to the target query, is used to create the channel. A channel may be created while a query is running.
Type: Grant
Filed: December 22, 1998
Issued: August 13, 2002
Assignee: Xerox Corporation
Inventors: Jutta Williamowski, Remo Pareschi, Uwe M. Borghoff

SEARCH CHANNELS BETWEEN QUERIES FOR USE IN AN INFORMATION RETRIEVAL SYSTEM
Application number: 20020032675
Abstract: An information retrieval system for retrieving information from multiple information sources. The information retrieval system provides for the building of dynamic queries through the use of query channels. A query channel permits the passing of attributes of the search results between different queries. The query channel can cause the automatic passing of the attributes, or it can be user controlled (breakpoints). Further, the query results may be transformed so that they are in the context of the target query (computational transformations). For example, the results may be translated or reformatted into a form utilized by the target query. Query channels are created based on graphical representations of queries and their attributes. A simple drag and drop operation, wherein an attribute is selected and dragged to the target query, is used to create the channel. A channel may be created while a query is running.
Type: Application
Filed: December 22, 1998
Issued: March 14, 2002
Inventors: JUTTA WILLIAMOWSKI, REMO PARESCHI, UWE M. BORGHOFF