Marco Colombetti

List of publications
Updated 31st August 2014

I. International publications

Books

1 Dorigo, M., & M. Colombetti (1998). *Robot shaping: An experiment in behavior engineering*. MIT Press, Cambridge, MA, pp. xviii+203.

Edited books

1 Ossowsky, S. (ed.), G. Andrighetto, E. Argente, H. Billhardt, V. J. Botti, C. Castelfranchi, M. Colombetti, V. Julián, S. Modgil, A. Polleres, J. A. Rodriguez-Aguilar, J. Sabater-Mir, C. Sierra, F. Toni, G. Vouros, A. Zimmermann (co-eds.) (2013). *Agreement Technologies*, Springer, Dordrecht, NE, pp. xxxvi+645.

Guest-edited special issues of journals

8 Nissan, E., G. Gini, & M. Colombetti, eds. (2009). Marco Somalvico Memorial Issue, *Computational Intelligence*, 25 (2-3), 109–159.

   Guest editorial: Nissan, E., G. Gini, & M. Colombetti, eds. (2009). Marco Somalvico Memorial Issue, *Computational Intelligence*, 25 (2), *Computational Intelligence*, 109–113.

7 Nissan, E., G. Gini, & M. Colombetti, eds. (2009). An Artificial Intelligence Miscellanea, Remembering Marco Somalvico. *Applied Artificial Intelligence*, 23 (3), 179–295.

   Guest editorial: Nissan, E., G. Gini, & M. Colombetti, eds. (2009). An Artificial Intelligence Miscellanea, Remembering Marco Somalvico. *Applied Artificial Intelligence*, 23 (3), 179–185.

6 Nissan, E., G. Gini, & M. Colombetti, eds. (2008). Marco Somalvico Memorial issue. *Annals of methematics and Artificial Intelligence*, 54 (4), 257–408.

   Guest editorial: Nissan, E., G. Gini, & M. Colombetti, eds. (2008). Marco Somalvico Memorial issue. *Annals of Mathematics and Artificial Intelligence*, 54 (4), 257–264.

5 Nissan, E., M. Colombetti, & G. Gini, eds. (2008). Robotics, virtual reality, and agents and their body: A special issue in memory of Marco Somalvico. *Journal of Intelligent and Robotic Systems*, 52 (3-4).

   Guest editorial: Nissan, E., G. Gini, & M. Colombetti (2008). Robotics, virtual reality, and agents and their body: A special issue in memory of Marco Somalvico. *Journal of Intelligent and Robotic Systems*, 52 (3-4), 333–341.

4 Nissan, E., G. Gini, & M. Colombetti, eds. (2008). Marco Somalvico memorial issue. *Cybernetics and Systems*, 39 (4), 305–466.

   Guest editorial: Nissan, E., G. Gini, & M. Colombetti (2008). Papers in sensing and in reasoning (Marco Somalvico memorial issue). *Cybernetics and Systems*, 39 (4), 305–309.

3 Colombetti, M., G. Gini, & E. Nissan, eds. (2007). In Memory of Professor Marco Somalvico, special issue of the *International Journal on Artificial Intelligence Tools*, 16 (2).

   Guest editorial: Colombetti, M., G. Gini, & E. Nissan (2007). Marco Somalvico Memorial Issue, *International Journal on Artificial Intelligence Tools*, 16 (2), 149–159.

2 Colombetti, M., G. Gini, & E. Nissan, eds. (2007). Marco Somalvico's Memorial Issue, special issue of the *Journal of Intelligent and Fuzzy Systems*, 18 (3).

1 Colombetti, M., ed. (2006). The Communication Sciences as a multidisciplinary enterprise, special issue of *Studies in Communication Sciences*, 6 (2), pp. 351.

   Guest editorial: Colombetti, M. (2006). The Communication Sciences as a multidisciplinary enterprise, special issue of *Studies in Communication Sciences*, 6 (2), 3–8.

Papers published in journals

29 Carassa, A., & M. Colombetti (2014). Interpersonal responsibilities and communicative intentions. *Phenomenology and the Cognitive Sciences*, 13 (1), 145–159. DOI: 10.1007/s11097-013-9325-z

28 Boissier, O., M. Colombetti, M. Luck, J.-J. Meyer, & A. Polleres (2013). Norms, organisations, and semantics. *The Knowledge Engineering Review*, 28 (1), 107–116. DOI: 10.1017/S0269888912000367

27 Chopra, A., A. Artikis, J. Bentahar, M. Colombetti, F. Dignum, N. Fornara, A. Jones, M. Singh, & P. Yolum (2013). Research directions in agent communication. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 4 (2), Article 20, 20:1–20:23. DOI: 10.1145/2438653.2438655

26 Carassa, A., & M. Colombetti (2012). On normative cognition, and why it matters for cognitive pragmatics. *Intercultural Pragmatics*, 9 (2), 271–280. DOI: 10.1515/ip-2012-0015

25 Fornara, N., & M. Colombetti (2010). Representation and monitoring of commitments and norms using OWL. *AI Communications*, 23 (4), 341–356. DOI: 10.3233/AIC-2010-0478

24 Carassa, A., & M. Colombetti (2009). Joint meaning. *Journal of Pragmatics*, 41 (9), 1837–1854. DOI: 10.1016/j.pragma.2009.03.005

23 Verdicchio, M., & M. Colombetti (2009). Communication languages for multiagent systems. *Computational Intelligence*, 25 (2), 136–159. DOI: 10.1111/j.1467-8640.2009.00333.x

22 Arrigoni Neri, M., & M. Colombetti (2009). Ontology-based learning objects search and courses generation. *Applied Artificial Intelligence*, 23 (3), 233–260. DOI: 10.1080/08839510802715134

21 Fornara, N., F. Viganò, M. Verdicchio, & M. Colombetti (2008). Artificial institutions: A model of institutional reality for open multiagent systems. *Artificial Intelligence and Law*, 16 (1), 89–105. DOI: 10.1007/s10506-007-9055-z

20 Fornara, N., F. Viganò, & M. Colombetti (2007). Agent communication and artificial institutions. *Journal of Autonomous Agents and Multi-Agent Systems*, 14 (2), 121–142. DOI: 10.1007/s10458-006-0017-8

19 Colombetti, M., & P. Paolini (2006). Information technologies and human communication. In M. Colombetti, ed., The Communication Sciences as a multidisciplinary enterprise, special issue of *Studies in Communication Sciences*, 6 (2), 55–70.

18 Piccini, C., A. Carassa, & M. Colombetti (2006). Narrative activity within an institutional framework. In M. Colombetti, ed., The Communication Sciences as a multidisciplinary enterprise, special issue of *Studies in Communication Sciences*, 6 (2), 327–336.

17 Fornara, N., & M. Colombetti (2004). A commitment-based approach to agent communication. *Applied Artificial Intelligence*, 18 (9-10), 853–867. DOI: 10.1.1.105.7864

16 Verdicchio, M., & M. Colombetti (2002). Commitments for agent-based supply chain management, *ACM SIGecom Exchanges*, 3 (1), 13–23. DOI: 10.1145/844331.844334

15 Colombetti, M. (2000). A language for artificial agents. *Studies in Communication Sciences*, 1 (1), 1–32.

14 Colombetti, M. (1999). A modal logic of intentional communication. *Mathematical Social Sciences*, 38, 171–196. DOI: 10.1016/S0165-4896(97)00014-0

13 Urzelai, J., D. Floreano, M. Dorigo, & M. Colombetti (1998). Incremental robot shaping. *Connection Science*, 10 (3-4), 341–360. DOI: DOI: 10.1080/095400998116486

12b Dorigo, M., & M. Colombetti (1997). Reply to D. Floreano, Engineering adaptive behavior (Book Review of Robot shaping: An experiment in behavior engineering by M. Dorigo and M. Colombetti). In M.J. Mataric, ed., Special issue on complete agent learning in complex environments, *Adaptive Behavior*, 5 (3-4), 417–420. DOI: 10.1177/105971239700500310

12a Dorigo, M., & M. Colombetti (1997). Book Precis: Robot shaping: An experiment in behavior engineering (MIT Press/Bradford Books, 1997). In M.J. Mataric, ed., Special issue on complete agent learning in complex environments, *Adaptive Behavior*, 5 (3-4), 391–405. DOI: 10.1177/105971239700500308

11 Colombetti, M., M. Dorigo, & G. Borghi (1996). Behavior Analysis and Training: A methodology for behavior engineering. *IEEE Transactions on Systems, Man, and Cybernetics - Part B*, 26 (3), 365–380. DOI: 10.1109/3477.499789

10 Patel, M.J., M. Colombetti, & M. Dorigo (1995). Evolutionary learning for intelligent automation: A case study. *Intelligent Automation and Soft Computing*, 1 (1), 29–42. DOI: 10.1080/10798587.1995.10750619

9	Dorigo, M., & M. Colombetti (1994). Robot shaping: Developing autonomous agents through learning. *Artificial Intelligence*, 71 (2), 321–370. DOI: 10.1016/0004-3702(94)90047-7

8	Colombetti, M., & M. Dorigo (1994). Training agents to perform sequential behavior. *Adaptive Behavior*, 2 (3), 247–275. DOI: 10.1177/105971239400200302

7	Airenti, G., B.G. Bara, & M. Colombetti (1993). Failures, exploitations and deceits in communication. *Journal of Pragmatics*, 20, 303–326. DOI: 10.1016/0378-2166(93)90055-T

6	Colombetti, M. (1993). Formal semantics for mutual belief. *Artificial Intelligence*, 62 (2), 341–353. DOI: 10.1016/0004-3702(93)90082-M

5	Airenti, G., B.G. Bara, & M. Colombetti (1993). Conversation and behavior games in the pragmatics of dialogue. *Cognitive Science*, 17 (2), 197–256. DOI: 10.1016/0364-0213(93)90011-V

4a	Prato Previde, E., M. Colombetti, M.D. Poli, & E. Cenami Spada (1992). Toward a comparative and evolutionary approach to cognition. Replies to commentaries, *International Journal of Comparative Psychology*, 6 (2), 116–119.

4	Prato Previde, E., M. Colombetti, M.D. Poli, & E. Cenami Spada (1992). The mind of organisms: Some issues on animal cognition. Focal article, *International Journal of Comparative Psychology*, 6 (2), 79–100.

3	Airenti, G., & M. Colombetti (1987). Functional modeling in the execution of actions. *Computers and Artificial Intelligence*, 6 (5), 469–480.

2	Colombetti, M., & G. Guida (1984). DIL: A system for control definition in programming languages. *Computer Languages*, 9 (1), 1–22.

1	Airenti, G., B.G. Bara, & M. Colombetti (1983). Knowledge and thought in a cognitive system. *Cybernetica*, 26 (1), 23–41.

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17	Carassa, A., & M. Colombetti (2013). Creating interpersonal reality through conversational interactions. In H. B. Schmid, B. Kobow, & M. Schmitz, eds., *The background of social reality*, Springer, Berlin, 91–104.

16	Fornara, N., & M. Colombetti (2009). Specifying artificial institutions in the Event Calculus. In V. Dignum, ed., *Handbook of research on Multi-Agent Systems: Semantics and dynamics of organizational models*, IGI Global, Hershey, PA, 335–366.

15	Viganò, F., & M. Colombetti (2009). Verifying organizations regulated by institutions. In V. Dignum, ed., *Handbook of research on Multi-Agent Systems: Semantics and dynamics of organizational models*, IGI Global, Hershey, PA, 367–396.

14	Carassa, A., M. Colombetti, & F. Morganti (2008). The role of joint commitment in intersubjectivity. In F. Morganti, A. Carassa, & G. Riva (eds.), *Enacting intersubjectivity: A cognitive and sociaql perspective to the study of interactions*, IOS Press, Amsterdam, 187–201.

13	Colombetti, M., N. Fornara, & M. Verdicchio (2004). A social approach to communication in multiagent systems. In A. Omicini, L. Sterling, P. Torroni, eds., *Declarative agent languages and technologies*, LNAI 2990, Springer, Berlin, 191–220.

12	Colombetti, M., & P.L. Lanzi (2001). Developing rational agents. In L. Cantoni, V. Di Gesù, eds., *Human and machine perception 3: Thinking, deciding, and acting*, Kluwer Academic/Plenum Publishers, 51–66.

11	Holland, H.J., L.B. Booker, M. Colombetti, M. Dorigo, D.E. Goldberg, S. Forrest, R.L. Riolo, R.E. Smith, P.L. Lanzi, W. Stolzmann, & S.W. Wilson (2000). What is a Learning Classifier System? In P.L. Lanzi, W. Stolzmann and S.W. Wilson, eds., *Learning Classifier Systems*, Springer, Berlin, 3–32.

10	Colombetti, M., & M. Dorigo (1999). Evolutionary computation in behavior engineering. In X. Yao, ed., *Evolutionary Computation: Theory and Applications*, World Scientific Publ. Co., Singapore, 37–80.

9	Colombetti, M. (1994). Adaptive agents: Steps to an ethology of the artificial. In F. Masulli, P.G. Morasso and A. Schenone, eds., *Neural Networks in Biomedicine*, World Scientific Publ. Co., Singapore, 391–403.

8	Airenti, G., B.G. Bara & M. Colombetti (1989). Dialogue as a cognitive process. In E. Weigand and F. Hundsnurscher, eds., *Dialoganalyse II*, Niemeyer, Tübingen, 71–83.

7	Airenti, G., B.G. Bara & M. Colombetti (1989). Knowledge for communication. In M. M. Taylor, F. Néel and D. G. Bouwhuis, eds., *The structure of multimodal dialogue*, North-Holland, Amsterdam, 145–158.

6   Colombetti, M., G. Guida, B. Pernici & M. Somalvico (1984). Reasoning in natural language for designing a data base. In A. Elithorn and R. Banerji, eds., *Artificial and human intelligence*, North-Holland, Amsterdam, 297–303.

5   Airenti, G., B.G. Bara & M. Colombetti (1984). An intrasystemic approach to belief. In A. Elithorn and R. Banerji, eds., *Artificial and human intelligence*, North Holland, Amsterdam, 265–269

4   Airenti, G., B.G. Bara & M. Colombetti (1984). Planning and understanding speech acts by interpersonal games. In B.G. Bara and G. Guida, eds., *Computational models of natural language processing*, North-Holland, Amsterdam, 9–31.

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2   Colombetti, M. (1980). O strukture znanij b modeli čelovečeskogo razuma. In S. Narin'jani, ed., *Predstavlenie znanij i modelirovanie processov ponimanij*, Akademija Nayk SSSR, Novosibirsk, 3–16.

1   Colombetti, M., P. Paolini & G. Pelagatti (1978). Nondeterministic languages used for the definition of data models. In H. Gallaire and J. Minker, eds., *Logic and Data Bases*, Plenum Press, New York, 237–257.

Papers published in the proceedings of conferences

57   Morganti, F., A. Carassa, M. Colombetti, P. Braibanti, G. Rezzonico, & I. Sgro (2013). Joint commitment: An analysis of emotions and non-verbal behaviors. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth, eds., *Proceedings of the 35th Annual Conference of the Cognitive Science Society (CogSci 2013)*, Berlin, 3116–3121.

56   Okouya, D., N. Fornara, & M. Colombetti (2012). An infrastructure for Open Interaction Systems. Position paper. *Proceedings of the 1st International Conference on Agreement Technologies*, Dubrovnik, 442–443.

55   Fornara, N., D. Okouya, & M. Colombetti (2012). Using OWL 2 DL for expressing ACL content and semantics. In M. Cossentino, M. Kaisers, K. Tuyls, & G. Weiss, eds., *Multi-Agent Systems (revised selected papers from EUMAS 2011)*, Springer, Berlin, 97–113.

54   Fornara, N., & M. Colombetti (2012). Specifying and enforcing norms in artificial institutions: Retrospective review. In C. Sakama, S. Sardina, W. Vasconcelos, & M. Winikoff, eds., *Proceedings of the International Workshop on Declarative Agent Languages and Technologies (DALT 2011)*, LNCS 7169, Springer, Berlin, 117–119.

53   Carassa, A., & M. Colombetti (2011). Layers of joint commitments in interpersonal communication. *Proceeding of the 33st Annual Meeting of the Cognitive Science Society (CogSci 2011)*, Boston, 1055–1060.

52   Carassa, A., & M. Colombetti (2009). Situated communicative acts: A deontic approach. *Proceedings of the 31st Annual Meeting of the Cognitive Science Society (CogSci 2009)*, Amsterdam, 1382–1387.

51b Fornara, N., & M. Colombetti (2010). Ontology and time evolution of obligations and prohibitions using semantic web technology. In M. Baldoni, J. Bentahar, & M. v. R. J. Lloyd, eds., *Proceedings of Declarative Agent Languages and Technologies VII*, LNCS 5948, Springer, Berlin, 101–118.

51a Fornara, N., & M. Colombetti (2009). Ontology and time evolution of obligations and prohibitions using Semantic Web technology. *Proceedings of the COIN 2009 Workshop at AAMAS 2009*, Budapest.

50   Viganò, F., & M. Colombetti (2008). Model checking norms and sanctions in institutions. *Proceedings of Coordination, Organizations, Institutions, and Norms in Agent Systems III*, Revised Selected Papers, LNCS 4870, Springer, Berlin, 316–329.

49   Viganò, F., & M. Colombetti (2007). Specification and verification of institutions through status functions. In , eds., In *Coordination, Organizations, Institutions, and Norms in Multi-Agent Systems II*, LNCS 4386, Springer, Berlin, 125–141.

48   Viganò, F., & M. Colombetti (2007). Symbolic model checking of institutions. *Proceedings of the 9th International Conference on Electronic Commerce (ICEC '07)*, Minneapolis (MN), 35–44.

47   Laniado, D., D. Eynard, & M. Colombetti (2007). A semantic tool to support navigation in a folksonomy. *Proceedings of the 18th Conference on Hypertext and Hypermedia*, ACM Press, New York, 153–154.

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44b	Viganò, F., N. Fornara, & M. Colombetti (2006). An event-driven approach to norms in artificial institutions. In O. Boissier, J. Padget, V. Dignum, G. Lindemann, E. Matson, S. Ossowski, J. Simão Sichman, J. Vázquez-Salceda, eds., *Coordination, Organizations, Institutions, and Norms in Multi-Agent Systems*, Revised Selected Papers, LNCS 3913, Springer, Berlin, 142 – 154.

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42b	Verdicchio, M., & M. Colombetti (2005). A commitment-based communicative act library. In F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh, & M. Wooldrige, eds., *Proceedings of the Fourth International Joint Conference on Autonomous Agents and Multi Agent Systems (AAMAS 05)*, Edinburgh, ACM Press, 755–761.

42a	Verdicchio, M., & M. Colombetti (2005). A commitment-based communicative act library. Extended Abstract. In M.P. Gleizes, G. Kaminka, A. Nowé, S. Ossowski, K. Tuyls, & K. Verbeeck, eds., *Proceedings of the Third European Workshop on Multiagent Systems (EUMAS 05)*, Bruxelles, 511–512

41	Fornara, N., F. Viganò, & M. Colombetti (2005). Agent communication and institutional reality. In R. M. van Eijk, M. P. Huget, & F. Dignum, eds., *Proceedings of the AAMAS-05 Workshop on Agent Communication (Revised Selected and Invited Papers)*, LNAI 3396, Springer, 1–17.

40	Viganò, F., N. Fornara, & M. Colombetti (2005). An operational approach to norms in artificial institutions. In F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh, & M. Wooldridge, eds., *Proceedings of AAMAS 2005*, Utrecht, 1289–1290.

39	Fornara, N.,l F. Viganò, & M. Colombetti (2004). A Communicative act library in the context of artificial institutions. In C. Ghidini, P. Giorgini, & W. van der Hoek, eds, *Proceedings of the 2nd European Workshop on Multi-Agent Systems (EUMAS 04)*, Barcelona, 223–235.

38	Verdicchio, M., & M. Colombetti (2004). Dealing with time in content language expressions. In R. van Eijk, M.-P. Huget, F. Dignum, eds., *Proceedings of the Workshop on Agent Communication, 3rd International Joint Conference on Autonomous Agents And Multiagent Systems (AAMAS 2004)*, New York, 90–104.

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36	Fornara, N., & M. Colombetti (2003). A commitment-based agent communication language. Proceedings of EUMAS 03, Oxford, pp. 7.

35	Colombetti, M., N. Fornara, & M. Verdicchio (2003). Speech acts in artificial agent communication. In A. Giacalone Ramat and E. Rigotti, eds., *Proceedings of "Linguistics and the New Professions"*, Franco Angeli, Milano, 70–92.

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19   Dorigo, M., M.J. Patel and M. Colombetti (1994). The effect of sensory information on reinforcement learning by a robot arm. *Proceedings of the 5th International Symposium on Robotics and Manufacturing (ISRAM 94)*, Maui, HI, TSI Press.

18   Colombetti, M., & M. Dorigo (1993). Learning to control an autonomous robot by distributed genetic algorithms. In J.-A. Meyer, H. L. Roitblat and S. W. Wilson, eds., *From Animals to Animats 2* (*Proceedings of the 2nd International Conference on Simulation of Adaptive Behavior, SAB 92*, Honolulu, 1992), M.I.T., Cambridge, MA, 305–312.

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