



PERSONAL INFORMATION

Luca Console

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WORK EXPERIENCE

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- From November 2000 **Full Professor in Computer Science**
Università di Torino
- November 1993 – October 2000 **Associate Professor in Computer Science**
Università di Torino
- November 1992 – October 1993 **Associate Professor in Computer Science**
Università di Udine
- October 2019- **Chair of Luarea degree**
Triennale in Social Innovation, Communication and ICT – Università di Torino
- From July 2012-Oct 2018 **Head (Direttore)**
Dipartimento di Informatica – Università di Torino
- 2001-2005 **Chair of Luarea degree**
Triennale in Scienze della Comunicazione – Università di Torino
- 2006-2010 **Chair of te Master Degree**
Specialistica in Comunicazione nella Società dell'Informazione

EDUCATION AND TRAINING

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- 1990 **Ph.D in Computer Science**
Consorzio Università di Milano e Torino
- 1985 **laurea (Master) in Computer Science**
Università di Torino

ADDITIONAL INFORMATION

RESEARCH AREAS

- Logic for knowledge representation and for the design of KB systems, main paper *New Gen Comp J.*
- Abductive Reasoning: characterization of abduction as a form of non-monotonic reasoning and relationships between abduction, deduction, induction (main paper on *J. Logic and Computation*).
- Diagnostic systems based on multiple models; in particular on the combination of heuristic and "deep" causal reasoning with applications to medicine and to diagnosis of physical devices. For this work he has been *invited speaker* at the *Avignon Int. Conf. on Applications of Expert Systems* in 1992 and received a *best paper* award at the same conference in 1991. Papers in collections and in *AI in Medicine J.*
- Model Based Diagnosis and its logical formalization: theory of diagnosis, a general spectrum for characterizing and comparing theories of diagnosis; the works on this topics received several awards: *best paper at ECAI 90*, paper in *Computational Intell. J.* included also in the "*Readings ion Model-based Diagnosis*" (collection of seminal paper on the topic published by Morgan Kaufmann in 1992).

- Approximate reasoning, dealing with uncertainty in expert systems, main paper *J. Approx Reasoning*.
- Making diagnosis efficient via compilation of heuristics and rules from models, application to automotive, main publications on *IEEE TKDE* and *J. AI Research*.
- Diagnosis of dynamic systems, providing a characterization and a framework to compare in a systematic way different approaches; main publication on *Artif. Int. Journal* and invited talk at the *DX conference*.
- Modelling and characterizing diagnosis of dynamic systems using process algebras. A novel approach, bridging model-based diagnosis and process algebra formalisms; main publication on *Artif. Int. Journal*.
- From theories to application of model-based diagnosis in automotive and aerospace domains, work in cooperation with FIAT and ALENIA and carried on the EU funded projects VMBD and AUTAS.
- Diagnosis as a process, exploiting MBD to integrate diagnosis in the design process, supporting FMEA, on-board embedding of diagnostic software. Activity carried on the EU funded project AUTAS and IDD and with FIAT and ALENIA. The topic has been the subject of an *invited talk at IJCAI 2001*.
- Temporal Reasoning: complexity of temporal reasoning (an efficient approach to querying temporal knowledge bases, main papers *Artif. Int. Journal* and *Comput Int.*), temporal databases (*IEEE TKDE*), diagnosis of dynamic systems (*Artif. Int. Journal*). LaTeR system (many downloads).
- Diagnosis of Web service, towards self healing web services. Adoption of model-based techniques to the domain of software. Activity carried on in the WS-DIAMOND project. Main paper on *ERCIM* and in the book *At your service: Service-Oriented Computing from an EU perspective*, MIT Press 2009.
- User modelling and personalization: approaches to user modelling, exploiting user models for designing recommender systems and personalized services (main paper on *WWW Journal*). Activity in cooperation with Telecom Italia and carried on in the EU project CAWICOMS.
- Adaptive context aware systems, ubiquitous computing and adapted services, applications to community services and cultural heritage. Collaboration with Citta' di Torino. Main paper on *UMUAI Journal*.
- Social Semantic Web: integration of semantic information, social relations for enhancing adaptive systems. Collaboration with Telecom Italia. Main paper on *AI Com Journal* and on *Multimedia Systems*.
- Web of Things: Embedding intelligence into things, interacting with objects, Social Web of Intelligent things: a new paradigm for interacting with networks of things allowing them to exchange information to users. Collaboration with Telecom Italia in the PIEMONTE project.
- Intelligent User Interfaces for supporting access to information and services especially in mobile context and in the Social Web of Intelligent things. Activity carried on in many projects (SETA, CAWICOMS, M3Lab, PIEMONTE) and in collaboration with Telecom Italia and included in many publications.

PUBLICATIONS

- 3 Monograph Books (including a book on «Diagnostic problem solving», van Nostrand 1990).
- 4 Edited Collections (including « Readings in Model Based Diagnosis », Morgan Kaufmann 1992).
- 38 Journal papers (including 3 on AI Journal, 4 on IEEE Transactions, 5 in AI Comm., 2 in Computational Intelligence, Journal on AI Research, UMAI, Journal of Logic and Computation, IEEE Intelligent Systems, ACM Computing Surveys.).
- About 100 papers at International Conferences or in Book chapters (including conferences such as IJCAI (5), ECAI (5), ..).
- H-index 30,.
- 1 patent TEL1257: *Method For Accessing Information Related to an Entity*, October 2010.

PROJECT COORDINATION

Principal investigator (coordinator of the unit) in many research projects and contracts:

- VMBD (EU project, Brite-Euram, 1996-1999), Model Based Diagnosis on Board Vehicle, main contractor Daimler.
- IDD - Integrating Diagnosis and Design (EU project GRD), 2000-2003, main contractor Fiat.
- CAWICOMS – Customer-Adaptive Web Interface for the Configuration of Products and Services with Multiple Suppliers (EU project IST), 1999-2002, main contractor DFKI.
- AUTAS - Automating FMECA for Aircrafts (EU Project GRD), 2002-2005, main contractor ALENIA.

Project Coordinator in the research projects:

- SETA (funded by Telecom Italia, 1997-2000) on adaptive recommendation systems.
- WS-DIAMOND - Web Services – Diagnosability, Monitoring and Diagnosis (EU FET Open, Project 516933), 2005-2008, Main contractor and coordinator,
- M3Lab. Multimedia Mobile Communication Lab, funded by CSP, Scientific Director.
- I-DYNAMIC-TV, Contract from Telecom Italia 2005-2008.
- WEB OF THINGS, contract from Telecom Italia 2009-2012.
- PIEMONTE. Funded by Regione Piemonte (2009-2012).
- Other Grants from MIUR (Italian Ministry of Research) and CNR during the 90s.

AWARDS

- IBM Prize for top 10 Computer Science Master Thesis in Italy, 1985.
- Prize for Best Young AI Italian Researcher, AI*IA (Italian Association for Artificial Intelligence), 1995.
- Best paper at ECAI 90 and at Int. Conf. on Expert Systems and Applications, Avignon 91.
- Invited Speaker at AI*IA 1995, IJCAI 2001, CAEPIA 2001, Ecai 2002 STAIRS, DX.
- Invited visiting professor in many EU Universities including IRISA Rennes, Univ. Paris XIII, Univ. Aix Marseille, Alpe Adria Univ. Klagenfurt.
- Invited instructor at several summer schools and instructor at conference tutorials.
- PC member and chair of several workshops and conferences, member of the editorial board and reviewer for many International Journals; Reviewer of projects for the French, Dutch, Austrian, British agencies.
- Member of the AI*IA steering committee and of the executive board and Steering Committee of the Network of Excellence MONET I and II (1996-2005), funded by the EU (NoE, V and VI framework).
- Member of many PhD and promotion committees in Austria, Netherlands, Canada, UK, France, Sweden, Switzerland.

COORDINATION OF EU RESEARCH

Luca Console is member of the executive board and of the Steering Committee of the Network of Excellence MONET (1996-2005), funded by EU (IST) for the coordination of research in the area of Model-based Systems. The network includes some 100 centers (Universities, Research Centers and industries). Luca Console is in charge of the task group concerning automotive applications, which recently produced a roadmap on the state of the art and future goals of the field (with contribution of companies such as Fiat, Daimler Chrysler, Audi, BMW, PSA Peugeot-Citroen, Bosch, Scania, Siemens Automotive, Actia, among others)

Luca Console has been the coordinator of the EU Fet Project WS-DIAMOND (EU FET Open, Project 516933), 2005-2008. He has been the Local Unit coordinator in 4 other EU Projects.

VISITING PROFESSOR/RESEARCHER

Luca Console has been visited researcher and professor in several international institution, including University of Klagenfurt, Université Paul Cezanne Marseille Aix, Université Paris Nord, Université Rennes 1, University of British Columbia Vancouver, MIT, Imperial College London, University of Toronto, Parc Palo Alto..

COORDINATION ROLES

- Head of Department (Computers Science, university of Torino) 2012-2018
- Member of Board of Directors (Academic Senate), University of Torino 2012-2018
- Member of Cini (Consorzio Interuniversitario nazionale per l'Informatica) Executive Board from 2013
- Member of Executive Board of CINI National Laboratory on Artificial Intelligence and Intelligent Systems from 2018
- Coordination of laurea Degrees
- Founding member of the Italia AI Association (AI*IA) and member of the executive board in the 90s

LIST OF PUBLICATIONS

Books

- [B1] L. Console, P. Torasso: Diagnostic Problem Solving: Combining Heuristic, Approximate and Causal Reasoning, Van Nostrand Reinhold, 1989.
- [B2] L. Console, E. Lamma, p. Mello: Programmazione Logica e Prolog, I edizione, UTET 1991.
L. Console, E. Lamma, p. Mello, M. Milano: Programmazione Logica e Prolog, II edizione ampliata, UTET 1997.
- [B3] L. Console: Introduzione all'informatica, I edizione, UTET 1999
L. Console, M. Ribaud: Introduzione all'informatica, II edizione ampliata, UTET 1997.
L. Console, M. Ribaud, U. Avalle: Introduzione all'informatica III edizione ampliata, UTET 2004.

Edited collections

- [R1] W. Hamscher, L. Console, J. de Kleer: Readings in Model-based Diagnosis, Morgan Kaufmann, 1992.
- [R2] L. Console, G. Friedrich: Annals of Mathematics and Artificial Intelligence: Special Issue on Model-Based Diagnosis; Volume 11 (no. 1-4), November 1994.
- [R3] L. Console: Second Int. Workshop on Principles of Diagnosis (DX-91), Editor of the proceedings.
- [R4] L. Console: AI*IA Notize, periodico della Associazione Italiana per l'Intelligenza Artificiale, Numero Speciale su Problem Solving Diagnostico, Anno X, no. 3, Settembre 1997. Include un articolo introduttivo sul tema "Problem Solving diagnostico: stato dell'arte e prospettive".

International Journals

- [J1] G. Molino, C. Cravetto, L. Console, P. Torasso: CHECK: a diagnostic expert system Combining HEuristic and Causal Knowledge; in International Journal of Biomedical Measurement, Informatics and Control, vol 1 (4) 1986: pp 182-193.
- [J2] L. Console, G. Rossi: Using Prolog for building FROG: a Hybrid Knowledge Representation System; in New Generation Computing, Vol. 6 (4), 1989: pp 361-388.
- [J3] L. Console, P. Torasso: Approximate Reasoning and Prototypical Knowledge; in International Journal of Approximate Reasoning, Vol. 3 (2), 1989: pp 157-178.
- [J4] L. Console, P. Torasso: Hypothetical Reasoning in Causal Models; in International Journal of Intelligent Systems, vol 5 (1) 1990: pp. 83-124.
- [J5] L. Console, M. Fossa, P. Torasso: Acquisition of causal Knowledge in the CHECK system; in Computers and Artificial Intelligence, vol 8 (4), 1989, pp. 323-345.
- [J6] L. Console, A. Janin Rivolin, P. Torasso: Fuzzy Temporal Reasoning on Causal Models; in International Journal of Intelligent Systems, vol 6 (2), 1991, pp. 107-133.
- [J7] L. Console, D. Theseider Duprè, P. Torasso: On the Relationships between Abduction and Deduction; in Journal of Logic and Computation, Vol 1 (5), 1991, pp. 661-690.
- [J8] L. Console, P. Torasso: Temporal Constraint Satisfaction on Causal Models, in Information Sciences, vol. 68 (1), 1993, pp. 1-32.
- [J9] L. Console, P. Torasso: A Spectrum of Logical Definitions of Model-based Diagnosis; in Computational Intelligence, vol 7 (3), 1991, pp. 133-141. Also in in Readings in Model-based Diagnosis, (eds. W. Hamscher, L. Console, J. de Kleer). Morgan Kaufmann, 1992, pp. 78-88.
- [J10] L. Console, P. Torasso: On the co-operation between abductive and temporal reasoning in medical diagnosis, in Artificial Intelligence in Medicine, vol 3 (6), 1991, pp. 291-311.
- [J11] L. Console, L. Portinale, D. Theseider Duprè, P. Torasso: Focusing Abductive Diagnosis; in AI Communications, vol. 4, no 2-3, 1991, pp. 88-97.
- [J12] L. Console, P. Torasso: An Approach to the Compilation of Operational Knowledge from Causal Models; in IEEE Transactions on Systems Man and Cybernetics, vol. 22 (4), 1992, pp. 772-789.
- [J13] L. Console, F. Molino, G. Molino, P. Torasso: LIED: Liver Information, Education and Diagnosis; in Methods of Information in Medicine, vol 31(4), 1992, pp. 1233-1244.
- [J14] L. Console, M.L. Sapino, D. Theseider Duprè: The role of abduction in database view updating; in Journal of Intelligent Information Systems, vol. 4, 1995, pp. 261-280.
- [J15] L. Console, L. Portinale, D. Theseider Duprè, P. Torasso: Diagnosing Time-Varying Misbehavior: an Approach Based on Model Decomposition; in Annals of Mathematics and Artificial Intelligence, vol 11 (1-4), 1994, pp. 381-398.
- [J16] L. Console, G. Friedrich: Model-Based diagnosis; An introductory overview; in Annals of Mathematics and Artificial Intelligence, vol 11 (1-4), 1994, pp. 1-10.
- [J17] V. Brusoni, L. Console, P. Terenziani: On the computational complexity of querying bounds on differences constraints; in Artificial Intelligence, vol. 74 (2), 1995, pp. 367-379.
- [J18] L. Console, L. Portinale, D. Theseider Duprè: Using compiled knowledge to guide and focus abductive diagnosis; in IEEE Transactions on

Knowledge and Data Engineering, vol 8(5), 1996, pp. 690 -706. 1996.

- [J19] L. Console, L. Portinale, D. Theseider Duprè, P. Torasso: On the role of abduction; in ACM Computing Surveys, vol. 33 no. 3, 1995, pp. 353-356.
- [J20] V. Brusoni, L. Console, B. Pernici, P. Terenziani: LaTeR: an efficient, general purpose manager of temporal information; in IEEE Expert, Vol. 12, no. 4, August 1997, pp. 56-64.
- [J21] V. Brusoni, L. Console, B. Pernici, P. Terenziani: Qualitative and Quantitative Temporal Constraints and Relational Databases: Theory, Architecture, and Applications; in IEEE Transactions on Knowledge and Data Engineering, Vol 11, no. 6, 1999: pp. 948-968.
- [J22] L. Console, D. Theseider Duprè, P. Terenziani: A Spectrum of definitions for temporal model-based diagnosis; in Artificial Intelligence, Vol 102, no 1, June 1998, pp 39-79.
- [J23] F. Cascio, L. Console, M Guagliumi, M. Osella, A. Panati, D. Theseider Duprè: Generating on-board diagnostics of dynamic automotive systems based on qualitative models; in AI Communications, Vol. 12, no. 1-2, June 1999, pp. 33-44.
- [J24] L. Ardissono, L. Console, A. Goy, R. Meo, G. Petrone, L. Lesmo, C. Simone, P. Torasso: A configurable system for the construction of adaptive virtual stores; in World Wide Web Journal, Vol. 2, no. 2, May 1999, pp. 143-159.
- [J25] L. Console, P. Terenziani: Efficient processing of queries about qualitative and quantitative temporal constraints; in Computational Intelligence, vol 15, no. 4, 1999.
- [J26] L. Ardissono, L. Console, I Torre: An adaptive system for the personalized access to news, AI Communications, Vol 14, no. 3, 2001: pp. 129-147.
- [J27] L. Console, D. Theseider Duprè, P. Terenziani: Local reasoning and knowledge compilation for efficient temporal abduction; in IEEE Transactions on Knowledge and Data Engineering, Vol. 14, No. 6, 2002, pp. 1230-1248.
- [J28] L. Console, C. Picardi, M. Ribaudò: Process algebras for systems diagnosis, in Artificial Intelligence, vol 142 no. 1, 2002, pp. 19-51.
- [J29] L. Console, I. Torre, I. Lombardi, S. Gioria, V. Surano: Personalized and Adaptive services on board a car - An application for tourist information: Journal of Intelligent Information Systems, Vol 21, No 2, 2003, pp 249-284.
- [J30] L. Console, C. Picardi, D. Theseider Duprè: Temporal Decision Trees: Model-based Diagnosis of Dynamic Systems On-Board, Int Journal of Artificial Intelligence Research, vol 19, 2003, pp 469-512.
- [J31] F. Cena, L. Console, C. Gena, A. Goy, S. Modeo, I. Torre: Integrating heterogeneous adaptation techniques to build a flexible and usable mobile tourist guide, in AI Communications, Vol 19(4), 2006, pp 369-384.
- [J32] L. Console, M.G. Fugini, and the WS-Diamond Team. WS-DIAMOND: an Approach to Web Services – DIAGNOSABILITY, MONITORING and DIAGNOSIS. ERCIM (European Research Consortium for Informatics and Mathematics), News 70, Special Theme: "Service-Oriented Computing", July 2007
- [J33] F. Carmagnola, F. Cena, L. Console, O. Cortassa, C. Gena, A. Goy, I. Torre, A. Toso, F. Venero: [Tag-based User Modeling for Social Multi-Device Adaptive Guides](#) *UMUAI User Modeling and User-Adapted Interaction, Special Issue on Personalizing Cultural Heritage Exploration* Vol. 18, Issue 3, May 2008, pp 478-506
- [J34] D. Cardillo, A. Rapp, S. Benini, L. Console, R. Simeoni, E. Guercio, R. Leonardi: The Art of Video Mashup, *Multimedia Tools and Applications*, pp 6-29, 2011.
- [J35] I. Lombardi, L. Console, P. Pavese, Flexible Rule-based Inference Exploiting Taxonomies, in Journal of Intelligent Information Systems, 36(1), 2011.
- [J36] F. Carmagnola, F. Cena, L. Console, P. Grillo, M. Perrero, R. Simeoni, F. Verner: Supporting content discovery and organization in networks of contents and users. *Multimedia Syst.* 17(3): 199-218 (2011)
- [J37] L. Console, I. Lombardi, C. Picardi, R. Simeoni: Toward a social web of intelligent things. *AI Commun.* 24(3): 265-279 (2011)
- [J38] L. Console, F. Antonelli, G. Biamino, F. Carmagnola, F. Cena, E. Chiabrando, V. Cuciti, M. Demichelis, F. Fassio, F. Franceschi, R. Furnari, C. Gena, M. Geymonat, P. Grimaldi, P. Grillo, S. Likavec, I. Lombardi, D. Mana, A. Marcengo, M. Mioli, M. Mirabelli, M. Perrero, C. Picardi, F. Protti, A. Rapp, R. Simeoni, D. Theseider Duprè, I. Torre, A. Toso, F. Torta, F. Venero: Interacting with social networks of intelligent things and people in the world of gastronomy. in *ACM Transaction on Intelligent Interaction Systems (TIIS)* (1): 4 (2013)
- [J39] [Amon Rapp, Federica Cena, Cristina Gena, Alessandro Marcengo, Luca Console:](#) *Using game mechanics for field evaluation of prototype social applications: a novel methodology.* *Behaviour & IT* 35(3): 184-195 (2016)
- [J40] [Federica Cena, Luca Console, Assunta Matassa, Iaria Torre:](#) *Principles to Design Smart Physical Objects as Adaptive Recommenders.* *IEEE Access* 5: 23532-23549 (2017)
- [J41] [Federica Cena, Luca Console, Assunta Matassa, Iaria Torre:](#) *Multi-dimensional intelligence in smart physical objects.* *Information Systems Frontiers* 21(2): 383-404 (2019)

Chapters in International Book

- [BC1] L. Console, P. Torasso: Heuristic and Causal Reasoning in CHECK; in Artificial Intelligence in Scientific Computing: Towards Second Generation Systems; eds. J.M.David, R.Huber, J.P.Krivine, C.A.Kulikowski, (Vol. 2 of Imacs Transactions of Scientific Computing 88), pp. 155-164, Baltzer Pub. Co. 1989.
- [BC2] L. Console, L. Portinale: Model based diagnosis of system malfunction with Petri nets; in Robotics and flexible manufacturing systems, (ed. S. Tsafestas, J. Gentina), North Holland, 1992.
- [BC3] L. Console, L. Portinale, P. Torasso, M. Casassa Mont: Approximate Reasoning in a System Combining Prototypical Knowledge with Case-based Reasoning; in Fuzzy Logic for the management of Uncertainty, (eds. I. Kaprzyk, L. Zadeh), John Wiley, 1992, pp. 377-396.
- [BC4] L. Console, L. Portinale, D. Theseider Duprè, P. Torasso, Combining Heuristic Reasoning with Causal Reasoning in Diagnostic Problem Solving; in Second Generation Expert Systems, (eds. J.M. David, J.P. Krivine and R. Simmons), Springer Verlag 1992.
- [BC5] L. Console, L. Portinale, D. Theseider Duprè, P. Torasso, C. Mossino: Abductive Diagnosis and its Application to a Mechanical Troubleshooting Problem"; in Industrial Application of Knowledge-based Diagnosis, (eds. G. Guida, A. Stefanini), Elsevier 1992, pp. 265-288.
- [BC6] L. Console, D. Theseider Duprè: Abductive Reasoning with Abstraction Axioms; in Foundations of Knowledge Representation and Reasoning, (G. Lakemayer, B. Nebel eds.), Lecture Notes in Computer Science 810, Springer Verlag, 1994, pp. 98-112.
- [BC7] L. Console, G. Molino e P. Torasso: Some new Challenges for Artificial Intelligence in Medicine; in Knowledge and Decisions in Health Telematics: The next Decade, (P. Barahona, J.P. Christensen Eds.), IOS Press, 1994, pp.115-120.
- [BC8] V. Brusoni, L. Console, B. Pernici, P. Terenziani: Extending Temporal Relational Databases to Deal with Imprecise and Qualitative Temporal Information; in Recent Advances in Temporal Databases (J. Clifford, A. Tuzhilin Eds.), Springer Verlag 1995.
- [BC9] L. Console, L. Saitta: On the Relations between Abductive and Inductive Explanation; in Topics in Abduction and Induction (P. Flach, A. Kakas Eds.), Kluwer Academic Press, 1998.
- [BC10] L. Console et al.: WS-DIAMOND: Web Services Diagnosis, Diagnosability and Design, in t your service: Service Engineering in the Information Society Technologies Program, MIT Press 2008 to appear

Papers in Books with selections from International Conferences

- [L1] L. Console, G. Rossi: Implementing Inference Strategies in Prolog based Expert Systems; in *Cybernetics and System Research* 1986, ed. R. Trappl, Reidel Pub. Co. 1986, pp. 767-774.
- [L2] L. Console, M. Fossa, P. Torasso, G. Molino, C. Cavetto: Man-Machine Interaction in CHECK; in *AIME* 87, eds. J.Fox, M.Fieschi, R.Engelbrecht, Lecture Notes in Medical Informatics 33, Springer Verlag (1987), pp 205-212.
- [L3] L. Console, G. Rossi: FROG: A Prolog-based system for Prolog-based Knowledge Representation; in *Artificial Intelligence and Information Control Systems of Robots*, ed. I. Plander, North Holland (1987), pp. 179-184.
- [L4] L. Console, M. Fossa, P. Torasso: Knowledge Acquisition via a graphical Interface; in *Artificial Intelligence and Information Control Systems of Robots*, ed. I. Plander, North Holland (1987), pp. 173-178.
- [L5] L. Console, P. Torasso: A Logical Approach to deal with Incomplete Causal Models in Diagnostic Problem Solving; in *Lecture Notes in Computer Science* 313, Springer Verlag 1988, pp 255-264.
- [L6] L. Console, P. Torasso, G. Molino, C. Cavetto: Generating Causal Explanations on Simulated Situations; in *Medical Informatics* 88, British Computer Society 1988, pp.1-7.
- [L7] L. Console, P. Torasso: A Multi-Level Architecture for Diagnostic Problem Solving; in *Computational Intelligence*, (eds. A.Martelli, G.Valle), North Holland 1988, pp. 101-112.
- [L8] L. Console, A. Furno, P. Torasso: Dealing with Time in Diagnostic Reasoning based on Causal Models; in *Methodologies for Intelligent Systems* 3, (eds. Z. Ras, L. Saitta), North Holland 1988, pp. 230-239.
- [L9] L. Console, con G. Molino, R. Pavia, M. Signorelli, P. Torasso: Simulating Generic Situations on Causal Models; in *AIME* 89, eds. J. Hunter, R. Cookson, J. Wyatt, Lecture Notes in Medical Informatics 38, Springer Verlag 1989, pp. 177-186.
- [L10] L. Console, D. Theseider Duprè, P. Torasso: Abductive Reasoning through direct deduction from completed domain models; in *Methodologies for Intelligent Systems IV*, (ed. Z. Ras), North Holland 1989, pp. 175-182.
- [L11] L. Console, R. Conto, G. Molino, V. Ripa di Meana e P. Torasso: CAP: A Critiquing Expert System for Medical Education; in *AIME* 91 (ed. L. Talmon), Lecture Notes in Medical Informatics, Springer Verlag 1991.
- [L12] L. Console, A. Giordana, L. Saitta: Investigating the Relationships between Abduction and Inverse Resolution in Propositional Calculus; in *Methodologies for Intelligent Systems* 6, (Z. Ras, M. Zemankova eds.) Lecture Notes in Computer Science 542, Springer Verlag 1991, pp. 316-325.
- [L13] L. Console, D. Theseider Duprè, P. Torasso: Towards the Integration of Different Knowledge Sources in Model-Based Diagnosis; in *Lecture Notes in Computer Science* 549, Springer Verlag 1991, pp. 177-186.
- [L14] C. Borlo, A. Casale, L. Console, P. Torasso: Dealing With Uncertainty in a Distributed Expert System Architecture; in *Uncertainty in Knowledge Bases*, Lecture Notes in Computer Science 521, Springer Verlag 1991, pp. 568-577.
- [L15] V. Brusoni, L. Console, B. Pernici, P. Terenziani: LaTeR: a general purpose manager of temporal information; in *Methodologies for Intelligent Systems* 8, Lecture Notes in Computer Science 869, Springer Verlag, 1994, pp. 255-264.
- [L16] V. Brusoni, L. Console, E. Lamma, P. Mello, M. Milano, P. Terenziani: Resource-based vs. task-based approach for scheduling problems; in *Methodologies for Intelligent Systems* 9, Lecture Notes in Computer Science 1079, Springer Verlag, 1996.
- [L17] V. Brusoni, L. Console, D. Theseider Duprè, P. Terenziani: An efficient algorithm for temporal abduction, in *Lecture Notes in Computer Science* 1321 Springer Verlag, 1997, pp. 195-206.
- [L18] L. Ardissono, L. Console, I. Torre: On the application of personalization techniques to news servers on the WWW, *Lecture Notes in Computer Science*, 1999.
- [L19] L. Console, I. Torre, I. Lombardi, S. Gioria, V. Surano: Adaptation and personalization on-board cars: a framework and its application to tourist services; in *Adaptive Hypermedia* 2002, Lecture Notes in Computer Science 2347, 2002.
- [L20] I. Amendola, F. Cena, L. Console, A. Crevola, C. Gena, A. Goy, S. Modeo, M. Perrero, I. Torre, A. Toso: UbiquiTO, A Multi device Adaptive Guide, in *Proc. Mobile HCI 2004*, Lecture Notes in Computer Science 3160, pp. 409-414.
- [L21] L. Ardissono, S. Bocconi, L. Console, R. Furnari, A. Goy, G. Petrone, C. Picardi, M. Segnan and D. Theseider Dupre'. Enhancing Web Service Composition by Means of Diagnosis. Proc. of 1st International Workshop on QoS in Self-healing Web Services (QSWs-08). Milano, September 1st, 2008. To appear in LNCS.
- [L22] I. Lombardi, L. Console: Common Sense Rule Inference, in *AI*IA 2009: Emergent Perspectives in Artificial Intelligence*, Lecture Notes in Computer Science 5883, Springer, 2009, pp. 21-30

Papers at International Conferences

- [C1] P. Torasso, L. Console: Knowledge organization and approximate reasoning in medical diagnostic expert systems; in *Proc. 3rd Int. Conf. on System Research, Informatics and Cybernetics*, Baden-Baden 1986.
- [C2] L. Console, P. Torasso: Causal Reasoning in Diagnostic Expert Systems; in *Proc V Int. Conf. on Application of Artificial Intelligence*, Orlando, Florida, May 1987, pp 598-605.
- [C3] L. Console, P. Torasso: Approximate Reasoning and Prototypical Knowledge; in *Proc. Second IFSA Congress*, Tokyo 1987, pp. 686-689.
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