

# CURRICULUM VITAE

of

## prof. CARLO TASSO

Carlo Tasso, born on February 3rd, 1953, received the Laurea in Electronic Engineering in 1980 from the University of Trieste. Full Professor of Computer Science at the University of Udine since 1995. In 1984 he started the first Italian academic Laboratory of Artificial Intelligence within the Department of Mathematics and Computer Science of the University of Udine.

Former Director of the Department of Mathematics and Computer Science, former Dean of the Faculty of Science. Past Deputy of the Rector for International relationships with India. Former member of Steering Committee of the University Hospital of Udine. Member of the Board of Directors of the University of Udine from 2016 to 2020.

He teaches various courses in Computer Science: 'Software Engineering', 'Artificial Intelligence', 'Knowledge Engineering and Expert Systems', 'Management Information Systems' and 'Recommender Systems'.

He has carried research in the area of Artificial Intelligence, and more specifically on adaptive Web personalization, user modeling, knowledge-based systems, intelligent interfaces for information retrieval and information filtering on the Web, enterprise information portals for knowledge management and information sharing, natural language processing, intelligent tutoring systems, and automatic diagnosis. Current research interests are focused on the application of Machine Learning and Deep Learning to Natural Language Processing,

He has been the responsible of the local research units of several research projects such as:

- the *TIPS Project* – IST-1999-10419 5th FP-IST - Tools for Innovative Publishing in Science - Multimedia Contents and Tools: Personalization in Electronic Publishing [2000-2002];
- the *INDICO Project* - IST-2001-34306 5th FP-IST - Integrated Digital Conferencing - Multimedia Contents and Tools – Semantic Web Technologies: Multimedia Information Filtering [2002 – 2004];
- the *UMTS Project* – MIUR (Italian Ministry of University and Research) Strategic Research Initiatives: Information Filtering for Innovative 3G (UMTS) Wireless Services [2002 – 2004];
- *TRI ICT Project* – EU Interreg IV Italy - Austria [cod. 2282 – 08 – 1] Cooperation among innovative SMEs, lead users, and support organizations [2008 – 2011].
- *Smart Energy – Network of Excellence* – EU Interreg IV Italy - Austria [Nr. 5403-24] Crossborder network of excellence, competency map, roadmaps on renewable energies [2012 – 2014].

He participated to the ICT for EU-India Cross Cultural Dissemination Project [2004 -

2006] within the EU-India Economic Cross Cultural Programme and to the Institute for Applicable Mathematics and Information Sciences Project [2008 – 2011] funded by the Italian Ministry of Education, University and Research (MIUR) in the framework of the FIRB Programme (project RBIN04M8S8). Both projects were carried out in cooperation with the BIRLA Science Center of Hyderabad (India).

Author of more than 200 scientific papers in international journals, conference proceedings, contributed volumes and authored books.

Program chairman and PC member of several scientific conferences, such as the User Modeling and Adaptive Personalization (UMAP, previously UM) conferences, the Adaptive Hypermedia (AH) conferences, the ACM SIGIR conferences. He has been the general Chair of UM'97 and member of the Editorial Board of the User Modeling and User Adapted Interaction Journal (UMUAI). Editor of a Special Issue of UMUAI (The Journal of Personalization Research. User Modeling and User-Adapted Interaction) devoted to “User Modeling in Information Retrieval on the Web”. He organized several Advanced Schools on various topics in Artificial intelligence. He has been one of the founders of the Italian Association for Artificial Intelligence. Former executive editor of the CISM (Int.l Center for Mechanical Sciences) Lecture Notes Series published by Springer Verlag.

In 2001, founder of the infoFACTORY Group, devoted to research, development and promotion of innovative Web systems, based on personalized access to digital information. The Group participates to several research initiatives and in 2004 started infoFACTORY, the first ICT spin-off company of the University of Udine.

In 2009 he was one of the founder of DITEDI, the ICT Cluster of the Friuli Venezia Giulia Region.

In December 2021 he was one of the founder of AiperTech, a spinoff company of the University of Udine aimed at transferring to the market the know-how acquired in the AI Laboratory.

Carlo Tasso

A handwritten signature in black ink, reading 'Carlo Tasso', with a long horizontal flourish extending to the right.

Udine, December 2021.

# LIST OF PUBLICATIONS of CARLO TASSO

(December 2021)

1980

1. Tasso C. Combinatorial Approaches to Advanced Multi-Key Retrieval Methods. *CISM Internal Report* 36, Udine, I, May 1980.
2. Tasso C. Advanced Secondary File Organizations: A Review. *Atti del Congresso Annuale AICA 1980*, Bologna, Italy, 29-31 Ottobre 1980, pp. 963-979.

1981

3. Guida G. and Tasso C. The NLI System for Natural Language Understanding. *CISM Research Report* 40, Udine, I, February 1981.

1982

4. Guida G. and Tasso C. Natural Language Access to Online Data Bases. In R.Trappi (Ed.), *Cybernetics and Systems Research, Proceedings Sixth European Meeting on Cybernetics and Systems Research*, Wien, A, April 13-16 1982, North Holland, Amsterdam, NL, 1982, pp. 891-896.
5. Guida G. and Tasso C. Dialogue with Data Bases: An Effective Natural Language Interface. *Proceedings of the International Symposium Informatika 82*, Ljubljana, Yugoslavia, May 10-14 1982, pp. 6/103/1-6/103/4.
6. Fum D., Guida G. and Tasso C. Forward and Backward Reasoning in Automatic Abstracting. In J.Horecky (Ed.), *COLING 82 - Proceedings Ninth International Conference on Computational Linguistics*, Prague, CZ, July 5-10 1982, North-Holland, Amsterdam, NL, 1982, pp. 83-88.
7. Guida G. and Tasso C. Online Information Retrieval through Natural Language. In J.E.Rijnsdorp, G.Johannsen (Eds.), *Analysis, Design and Evaluation of Man-Machine Systems - Proceedings of IFAC/IFIP/IFORS/IEA Conference*, Baden Baden, Germany, September 27-29, 1982, Pergamon Press, Oxford, UK, 1983, pp.247-253.
8. Fum, D., Guida G. and Tasso C. A Goal Oriented Approach to Automatic Abstracting. *Proceedings Second International Conference on Artificial Intelligence and Information-Control Systems of Robots*, Smolenice, CZ October 18-22 1982, pp. 84-87.
9. Guida G. and Tasso C. Intelligenza Artificiale: il Grande Fratello? *Sistemi e Automazione* XXVIII, 230, Ottobre 1982, pp. 841-857.
10. Guida G. and Tasso, C. NLI: a Robust Interface For Natural Language Person-Machine Communication. *International Journal of Man-Machine Studies* 17, 1982, pp. 417-433. ISSN 0020-7373
11. Guida G. and Tasso C. Algorithms and Heuristics in the NLI System for Natural Language Understanding. In A.S. Narin'yani (Ed.), *Prikladnie i Eksperimentalnie Lingvisticeskie Prozessori (Applied and Experimental Linguistic Processors)*, USSR Academy of Sciences, Siberian Branch,

Novosibirsk, USSR, 1982, pp. 37-59

1983

12. Guida G. and Tasso C. IR-NLI: an Expert Natural Language Interface to Online Data Bases. *Proceedings of the ACL Conference on Applied Natural Language Processing*, Santa Monica, CA, February 1-3 1983, pp. 31-38.
13. Guida G. and Tasso C. The Issue of Knowledge Acquisition in the Design of Rule-Based Expert Systems. *ISAI-83 Proceedings of the IFAC/IFIP International Symposium on Artificial Intelligence*, Leningrad, USSR, October 4-6 1983, Pergamon Press, Oxford, UK, 1984, pp. 31-36.
14. Guida G. and Tasso C. An Expert Intermediary System for Interactive Document Retrieval. *IFAC Journal AUTOMATICA*, 19(6), November 1983, pp. 759-766.
15. Tasso C. La Documentazione Online: Un Moderno Strumento di Innovazione e Sviluppo Tecnologico. *Identità*, Dicembre 1983, pp. 60-65.
16. Fum D., Guida G. and Tasso C. Un Modello di Comprensione Guidata dall'Obiettivo, In B.G.Bara (a cura di), *La Linguistica Computazionale*, Franco Angeli, Milano, 1983, pp. 205-221.

1984

17. Fum D., Guida G. and Tasso C. A Rule-Based Approach to Natural Language Text Representation and Comprehension. In R.Trappi (Ed.), *Cybernetics and Systems Research 2 - Proceedings of the Seventh European Meeting on Cybernetics and Systems Research*, Wien, A, April 24-27 1984, North-Holland, Amsterdam, NL, 1984, pp. 727-732.
18. Guida G. and Tasso C. A New Approach to the Design of Expert System Architectures. In I.Plander (Ed.), *Artificial Intelligence and Information-Control Systems of Robots - Proceedings of the Third International Conference on Information-Control Systems of Robots*, Smolenice, CZ, June 11-15 1984, North-Holland, Amsterdam, NL, 1984, pp. 405-413.
19. Guida G. and Tasso C. A Flexible Inference Mechanism for Rule-Based Systems. (Abstract). In T.O'Shea (Ed.), *ECAI-84: Advances in Artificial Intelligence - Proceedings of the 6th European Conference on Artificial Intelligence*, Pisa, Italy, September 5-7 1984, North-Holland, Amsterdam, NL, 1984, p. 84.
20. Guida G. and Tasso C. A Meta-Level Architecture for New-Generation Knowledge-Based Systems. *Proceedings of the Workshop and Conference on Applied AI and Knowledge-Based Expert Systems*. Stockholm, Sweden, November 29-30 1984, pp. 43-52.
21. Guida G. and Tasso C. *Algoritmi e computabilità*. CLUF - Cooperativa Libreria Universitaria Friulana, Udine, 1984.
22. Tasso C. L'Informatica al Servizio dello Storico. In P.E. di Prampero, M. de Carvalho (a cura di), *Metodologia e Ricerca Storica - Atti del Seminario Internazionale*. Centro Studi Storici G. di Prampero, Udine, 1984, pp. 87-99.
23. Fum D., Guida G. and Tasso C. A Propositional Language for Text Representation. In B.G.Bara, G.Guida (Eds.), *Computational Models of Natural Language Processing*, North-Holland, Amsterdam, NL, 1984, pp.121-150.

1985

24. Fum D., Guida G. and Tasso C. A Rule-Based Approach to Evaluating Importance in Descriptive Texts. *Proceedings of the Second Conference of the European Chapter of the Association for Computational Linguistics*, Geneva, CH, March 27-29 1985, pp. 244-250.
25. Fum D., Guida G. and Tasso C. Evaluating Importance: a Step towards Text Summarization.

*IJCAI 85 - Proceedings of the Ninth International Joint Conference on Artificial Intelligence*, Los Angeles, CA, August 18-23 1985, pp. 841-844. ISBN 0-934613-02-8

26. Barbas T., Bastin F., Capobianchi S., Carlesso S., Guida G., Koletsos A.D., Mancini G., Somalvico M. and Tasso C. An Intelligent Interface for Accessing a Technical Data Base. In G.Johannsen, G.Mancini (Eds.), *Analysis, Design and Evaluation of Man-Machine Systems, Proceedings of the 2nd IFAC/IFIP/IFORS/IEA Conference*, Varese, Italy, September 10-12 1985, pp. 43-52.
27. Brajnik G., Guida G. and Tasso C. A Functionally Distributed Architecture for the IR-NLI Expert Interface. *Proceedings of Informatika 85*, Nova Gorica, Yugoslavia, September 24-26 1985, *Journal of Computing and Informatics* 9(4), 1985, pp. 352-355.
28. Fum D., Guida G. and Tasso C. Capturing Importance in Natural Language: An HPN-Based Approach. In G.A.J.Hoppenbrouwers, P.A.M. Seuren, A.J.M.M. Weijters (Eds.), *Meaning and the Lexicon*, FORIS Pbl., Dordrecht, NL, 1985, pp. 267-284.
29. D'Angelo A., Guida G., Pighin M. and Tasso C. A Mechanism for Representing and Using Meta-Knowledge in Rule-Based Systems. In M.M.Gupta, A.Kandel, W.Bandler, J.B.Kiszka (Eds.), *Approximate Reasoning in Expert Systems*, North-Holland, Amsterdam, NL, 1985, pp. 781-798.

1986

30. Fum D., Guida G. and Tasso C. Tailoring Importance Evaluation to Reader's Goals: A Contribution to Descriptive Text Summarization. *COLING '86 Proceedings of the 11th International Conference on Computational Linguistics*, Bonn, FRG, August 25-29, 1986, pp. 256-259.
31. Brajnik G., Guida G. and Tasso C. Utilizzo di tecniche di Intelligenza Artificiale per il Problema del Reperimento dell'Informazione: il Progetto IR-NLI. *Atti del II Convegno Nazionale AIDA "Il sistema della documentazione"*, Verona, I, 12-13 Novembre 1986, pp. 317-323.
32. Tasso C. IR-NLI: Un'Interfaccia Intelligente a Sistemi di Documentazione Online. In A. Dugulin, A.I. Fontana, A. Zecchia (a cura di), *Il Recupero dell'Informazione*, Editrice Bibliografica, Milano, I, 1986, pp. 114-126.
33. Brajnik G., Guida G. and Tasso C. An Expert Interface for Effective Man-Machine Interaction. In L.Bolc, M.Jarke (Eds.), *Cooperative Interfaces to Information Systems*, Springer-Verlag, Berlin, FRG, 1986, pp. 259-308.

1987

34. Costantini C., Fum D., Guida G., Montanari A. and Tasso C. Text Understanding with Multiple Knowledge Sources: An Experiment in Distributed Parsing. *Proceedings of the Third Conference of the European Chapter of the Association for Computational Linguistics*, Copenhagen, DK, April 1-3, 1987, pp. 75-79.
35. Brajnik G., Guida G. and Tasso C. Ricerca di Intelligenza Artificiale presso l'Università di Udine, *Atti dell'Incontro sull'Intelligenza Artificiale*, Bressanone, 6-7 Maggio, 1987, pp. 197-203.
36. Fum D., Guida G. and Tasso C. Variable-Depth Text Understanding: Integrating Importance Evaluation into the Comprehension Process. *Proceedings of the 4th International Conference Artificial Intelligence and Information-Control Systems of Robots*, Smolenice, CZ, October 19-23 1987, North-Holland, Amsterdam, NL, 1987, pp. 31-39.
37. Brajnik G., Guida G. and Tasso C. User Modelling in Intelligent Information Retrieval. *Information Processing & Management*, 23(4), 1987, pp. 305-320.
38. Brajnik G., Guida G. and Tasso C. Design and Experimentation of IR-NLI: An Intelligent User Interface to Bibliographic Data Bases. In L.Kerschberg (Ed.), *Expert Database Systems -*

*Proceedings From the First International Conference*, The Benjamin/Cummings, Menlo Park, CA, 1987, pp. 151-162.

39. Fum D., Guida G. and Tasso C. Un Modello Concettuale per la Comunicazione Uomo-Macchina: L'interfaccia Esperta. In O. Stock (Ed.) *L'Interazione Uomo-Computer*, Il Pensiero Scientifico, Roma, 1987, pp. 157-185.
40. Fum D., Guida G. and Tasso C. Bibliografia Essenziale sull'Intelligenza Artificiale. In G. Guida, S. Incerti (a cura di), *Libro Bianco sulla Intelligenza Artificiale in Italia: Situazione e Prospettive*, Masson Italia, Milano, 1987, pp. 125-144.

1988

41. Fum D., Giangrandi P. and Tasso C. ET: An Intelligent Tutor for Foreign Language Teaching. *Proceedings of ITS-88 - International Conference on Intelligent Tutoring Systems*, Montreal, Canada, June 1-3, 1988, pp. 462-468.
42. Brajnik G., Guida G. and Tasso C. IR-NLI II: Applying Man-Machine Interaction and Artificial Intelligence Concepts to Information Retrieval. *Proceedings of the 11th ACM-SIGIR Int. Conference on Research & Development in Information Retrieval*, Grenoble, France, June 13-15, 1988, pp. 387-399.
43. Fum D., Giangrandi P. and Tasso C. The ET Project: Artificial Intelligence in Second Language Teaching. In F. Lovis and E.D. Tagg (Eds.), *Computers in Education - Proceedings of ECCE-88 European Conference on Computers in Education*, Lousanne, CH, July 24-29 1988, Elsevier Science, Amsterdam, NL, 1988, pp. 511-516.
44. Fum D., Giangrandi P. and Tasso C. Student Modeling Techniques in Foreign Language Tutoring. *ECAI-88 Proceedings of 8th European Conference on Artificial Intelligence*, Munich, FRG, August 1-5 1988, pp. 94-96.
45. Brajnik G., Guida G., Pighin M. and Tasso C. ADL: A Language and Tool for Designing Blackboard System Architectures. *Second AAI Workshop on Blackboard Systems, AAI-88 - 7th National Conference on Artificial Intelligence*, St. Paul, MN, August 24 1988, pp. 1-18.
46. Fum D., Guida G. and Tasso C. A Distributed Multi-Agent Architecture for Natural Language Processing. *COLING '88 Proceedings of the 12th International Conference on Computational Linguistics*, Budapest, Hungary, August 22-27, 1988, pp. 812-814.
47. Fum D., Giangrandi P. and Tasso C. Un Prototipo di Sistema Tutoriale Intelligente per l'Insegnamento delle Forme Verbali Inglese. *AICA-88 - Atti del Congresso Annuale*, Cagliari, 28-30 Settembre 1988, pp. 605-619.
48. Tasso C. (Ed.), Bratko I. *Programmare in PROLOG per l'intelligenza artificiale*. Coedizione Addison-Wesley/Masson, Milano, 1988.
49. Fum D., Giangrandi P. and Tasso C. Design and Experimentation of an Intelligent Tutor for Foreign Language Teaching. In R. Trappl (Ed.), *Cybernetics and Systems '88*, Kluwer Academic, Dordrecht, NL, 1988, pp. 901-908.

1989

50. Fum D., Giangrandi P. and Tasso C. Tense Generation in an Intelligent Tutor for Foreign Language Teaching: Some Issues in the Design of the Verb Expert. *Proceedings of the Fourth Conference of the European Chapter of the Association for Computational Linguistics*, Manchester, UK, April 10-12 1989, pp. 124-129.
51. Chittaro L., Costantini C., Guida G., Tasso C. and Toppano E. Diagnosis Based on Cooperation of Multiple Knowledge Sources. *Proceedings of the 9th International Workshop on Expert Systems and their Applications - Specialized Conference on Second Generation Expert Systems*,

Avignon, F, May 29 - June 2 1989, pp. 19-33.

52. Brajnik G., Chittaro L., Guida G., Tasso C. and Toppano E. Un Approccio alla Rappresentazione di Sistemi Fisici Basato sull'Utilizzo di Modelli Eterogenei. *Atti del Primo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale*. Trento, 8-10 Novembre 1989, CENFOR Books, Genova, I, pp. 221-232.
53. Fum D., Guida G., Montanari A. and Tasso C. Using Levels and Viewpoints in Text Representation. *Proceedings of the 5th International Conference Artificial Intelligence and Information-Control Systems of Robots*, Smolenice, CZ, November, 1989, North-Holland, Amsterdam, NL, 1989.
54. Brajnik G., Guida G. and Tasso C. Modeling Individual Users in the IR-NLI II System for Intelligent Information Retrieval. In Ranta J. (Ed.) *Analysis, Design & Evaluation of Man-Machine Systems*, Oulu, FL, June 14-16 1988, Pergamon Press, Oxford, UK, 1989, pp. 222-227. ISBN 0080362265
55. Brajnik G., Chittaro L., Guida G., Tasso C. and Toppano E. The Use of Many Diverse Models of an Artifact in the Design of Cognitive Aids, *Proceedings 2nd European Conference on Cognitive Approaches to Process Control*, Siena, I, October 24-27 1989, pp. 69-79.
56. Guida G. and Tasso C. (Eds.) *Topics in Expert System Design - Methodologies and Tools*. North-Holland, Amsterdam, NL, 1989. ISBN 044487321x
57. Guida G. and Tasso C. Building Expert Systems: From Life Cycle to Development Methodology. In G.Guida, C.Tasso (Eds.), *Topics in Expert System Design - Methodologies and Tools.*, North-Holland, Amsterdam, NL, 1989, pp. 3-24.
58. Guida G. and Tasso C. Building Expert Systems: A Structured Bibliography. In G.Guida, C.Tasso (Eds.), *Topics in Expert System Design - Methodologies and Tools*. North-Holland, Amsterdam, NL, 1989, 419-435.

1990

59. Brajnik G., Chittaro L., Tasso C. and Toppano E. Epistemology, Organization and Use of Functional Knowledge for Reasoning about Physical Systems. *Proceedings of the 10th International Workshop on Expert Systems and their Applications - Specialized Conference on Second Generation Expert Systems*, Avignon, F, May 29 June 2, 1990, pp. 53-66.
60. Fum D., Giangrandi P. and Tasso C. Backward Model Tracing: An Explanation-Based Approach for Reconstructing Student Reasoning. *Proceedings of the AAAI-90 Eighth National Conference on Artificial Intelligence*, Boston, USA, July 29 - August 3, 1990, AAAI Press, Menlo Park, CA, 1990, pp. 426-433.
61. Brajnik G., Guida G. and Tasso C. User Modeling in Expert Man-Machine Interfaces: A Case Study in Intelligent Information Retrieval. *IEEE Transaction on Systems, Man, and Cybernetics*, 20(1), 1990, pp. 166-185.

1991

62. Fum D., Pani B. and Tasso C. Teaching the English Tense: Integrating Naive and Formal Grammars in an Intelligent Tutor for Foreign Language Teaching. *Proceedings of the Fifth Conference of the European Chapter of the Association for Computational Linguistics*, Berlin, D, April 9-11, 1991.
63. Di Manzo M., Guida G., Manigrasso R., Molfino R., Somalvico M., Squellati G. and Tasso C. Sistemi Inferenziali in Tempo Reale per Robot. In U.Cugini (Ed.) *Atti del 2° Convegno del Progetto Finalizzato Robotica*, Milano, I, 27-28 Maggio 1991, pp. 193-209.
64. Brajnik G., Chittaro L., Guida G., Tasso C. and Toppano E. Representation and Use of

Teleological Knowledge in the Multi-Modeling Approach. In E. Ardizzone, S. Gaglio, and F. Sorbello (Eds.) *Trends in Artificial Intelligence - Proceedings of the 2nd Congress of the Italian Association for Artificial Intelligence (AI\*IA)*, Springer Verlag, Berlin, FRG, October 29-31 1991, pp. 167-176.

65. Brajnik G., Tasso C. and Vaccher A. A Flexible Tool for Assumption-based User Modeling. In E. Ardizzone, S. Gaglio, and F. Sorbello (Eds.) *Trends in Artificial Intelligence - Proceedings of the 2nd Congress of the Italian Association for Artificial Intelligence (AI\*IA)*, Springer Verlag, Berlin, FRG, October 29-31 1991, pp. 445-449.
66. Fum D., Tasso C., Tiepolo L. and Tramontini A. A Computational Model of Tense Selection and its Experimentation within an Intelligent Tutor. In E. Ardizzone, S. Gaglio, and F. Sorbello (Eds.) *Trends in Artificial Intelligence - Proceeding of the 2nd Congress of the Italian Association for Artificial Intelligence (AI\*IA)*, Springer Verlag, Berlin, October 29-31 1991, pp.261-270.
67. Brajnik G., Mastrodonato L., Scaroni C. and Tasso C. FIRE: un Prototipo di Ambiente di Sviluppo per Interfacce Intelligenti e Cooperative per l'Accesso a Banche di Dati Bibliografici. In *Sistemi informatici e Calcolo parallelo*. A cura di B. Fadini. Franco Angeli, Milano, 1991, pp. 258-266.

1992

68. Fum D., Pani S., and Tasso C. Naive vs. Formal Grammars: A Case for Itegration in the Design of a Foreign Lnguage Tutor. In M.L. Swartz, M. Yazdani (Eds.) *Intelligent Tutoring Systems for Foreign Language Learning*, Springer Verlag, Berlin, FRG, 1992, pp. 51-64.
69. Fum D., Giangrandi O. and Tasso C. The Use of Explanation-Based Learning for Modeling Student Behavior in Foreign Language Tutoring. In M.L. Swartz, M. Yazdani (Eds.) *Intelligent Tutoring Systems for Foreign Language Learning*, Springer Verlag, Berlin, FRG, 1992, pp. 151-170.
70. Brajnik G. and Tasso C. A Flexible Tool for Developing User Modeling Applications with Nonmonotonic Reasoning Capabilities. In E.André, R.Cohen, W.Graf, B.Kass, C.Paris, W.Wahlster (Eds.) *UM92 - Third International Workshop on User Modeling - Proceedings*, August 9-13 1992, DFKI - Deutsche Forschungszentrum fuer Kuenstliche Intelligenz, Kaiserslautern, FRG, pp. 42-66.
71. Chittaro L., Guida G., Tasso C. and Toppano E. Developing Diagnostic Applications Using Multiple Models: the Role of Interpretative Knowledge. In G. Guida and A. Stefanini (Eds.) *Industrial Applications of Knowledge-Based Diagnosis*, Elsevier, Amsterdam, NL, 1992, pp. 219-263 .

1993

72. Chittaro L., Guida G., Tasso C. and Toppano E. Functional and Teleological Knowledge in the Multi-Modeling Approach for Reasoning about Physical Systems: a Case Study in Diagnosis. *IEEE Transaction on Systems, Man, and Cybernetics*, 23(6), 1993, pp.1718-1751.
73. Chittaro L., Tasso C. and Toppano E., Exploiting Functional Knowledge for Model-Based Diagnosis, *Proceedings of DX-93-4th International Workshop on Principles of Diagnosis*, Aberystwyth, UK, September 6-8 1993, pp. 1-10.
74. Guida G., Grancini C., Molfino R., Mussi S. , Tasso C. and Somalvico M. Un approccio basato sulla conoscenza per la diagnosi preventiva di sistemi industriali. *Atti del Quarto Convegno del Progetto Finalizzato Robotica*, 2-3 Dicembre 1993, Citta' Studi, Milano, I, pp. 139-152.
75. Tasso C. L'intelligenza artificiale applicata alla ricerca bibliografica: una sperimentazione nell'ambito di una banca dati di interesse regionale. *Atti del Convegno di Studio "Cultura e Informatica"*, Udine , I, 1993, pp. 53-77.

1994



76. Guida G. and Tasso C. *Design and Development of Knowledge-Based Systems: from Life Cycle to Development Methodology*, John Wiley and Sons, Chichester, UK, 1994. ISBN 0471928089
77. Brajnik G. and Tasso C. A Shell for Developing Nonmonotonic User Modeling Systems. *International Journal of Human-Computer Studies* 40, 1994, pp. 31-62.
78. Chittaro L., Tasso C. and Toppano E. Putting Functional Knowledge on Firmer Ground, *Journal of Applied Artificial Intelligence* 8(2), 1994, pp. 239-258.
79. Chittaro L. and Tasso C. Handling Effort Observations in Functional Diagnosis, *Proceedings of the AAAI-94 Workshop on Representing and Reasoning about Device Function*, Seattle, WA, July 31-August 4 1994, pp. 20-27.

1995

80. Brajnik G., Mizzaro S. and Tasso C. Interfacce intelligenti a banche di dati bibliografici, Monografia del Progetto Finalizzato CNR. In D.Sacca' (Ed.), *Sistemi evoluti per basi di dati*, Franco Angeli, Milano, I, 1995, pp. 95-128.
81. Chittaro L., Tasso C. and Toppano E. Dimensions of Abstractions and Approximation in the Multimodeling Approach. In H.Kangassalo, H.Jaakkola, S.Ohsuga, B.Wangler (Eds.), *Information Modelling and Knowledge Bases VI*, IOS Press, Amsterdam, NL, 1995, pp. 75-89.
82. Adey R.A., Rzevski G. and Tasso C. (Eds.) *Applications of Artificial Intelligence in Engineering X. Computational Mechanics*, Southampton, UK, 1995.
83. Giangrandi P. and Tasso C. Truth Maintenance Techniques for Modelling Student's Behaviour, *Journal of Artificial Intelligence in Education*, 6(2-3), 1995, pp. 153-202. ISSN 1560-4292

1996

84. Brajnik G., Mizzaro S. and Tasso C. Evaluating User Interfaces to Information Retrieval Systems: a Case Study on User Support. *Proceedings of the 19th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR '96*, Zurich, CH, August 18-22, 1996, pp. 128-136.
85. Brajnik G., Mizzaro S. and Tasso C. Valutazione di interfacce intelligenti per il reperimento di informazioni. *Supplemento di AI\*IA Notizie*, IX(3), 1996, pp. 36-37.
86. M. Minio, and C. Tasso, User Modeling for Information Filtering on Internet Services: Exploiting an Extended Version of the UMT Shell, *UM96 Workshop on User Modeling for Information Filtering on the World Wide WEB*, Kailua-Kona, Hawaii, USA, January 1996.
87. Minio M. and Tasso C. IFT: una interfaccia intelligente per il filtraggio di informazioni basato su modellizzazione d'utente. *Supplemento di AI\*IA Notizie*, IX(3), 1996, pp. 21-25.
88. Giangrandi P. and Tasso C. Modelling the Temporal Evolution of Student's Knowledge, *Proceedings of the European Conference on Artificial Intelligence in Education*, Lisbon, P, September 30-October 2, 1996, pp. 184-190.

1997

89. Tasso C., Adey R.A. and Pighin M. (Eds.) *Software Quality Engineering*. Computational Mechanics, Southampton, UK, 1997.
90. Jameson A., Paris C. and Tasso C. (Eds.) *User modeling - Proceedings of the 6th International Conference UM97*, Chia Laguna, I, June 2-5, 1997, Springer Wien NewYork, 1997.

91. Asnicar F.A., Tasso C. ifWeb: a Prototype of User Model-Based Intelligent Agent for Document Filtering and Navigation in the World Wide Web, *Proceedings of the workshop "Adaptive Systems and User Modeling on the World Wide Web"*, Sixth International Conference on User Modeling, Chia Laguna, Sardinia, 2-5 June 1997.
  92. Giangrandi P. and Tasso C. Managing Temporal Knowledge in Student Modeling. In A. Jameson, C. Paris and C. Tasso (Eds.) *User modeling - Proceedings of the 6th International Conference UM97*, Chia Laguna, I, June 2-5, 1997, Springer Verlag, Wien - New York, 1997, pp. 415-426.
  93. Giangrandi P. and Tasso C. Temporal Reasoning in Student Modeling. In B. du Boulay and R. Mizoguchi (Eds.) *Artificial Intelligence in Education. Knowledge and Media in Learning Systems - Proceedings of AI-ED 97 World Conference on Artificial Intelligence in Education*, Kobe, Japan, August 20-22, 1997, IOS Press, Amsterdam, pp. 514-521.
  94. Asnicar F.A., Di Fant M. and Tasso C. User Model-Based Information Filtering. In M. Lenzerini (Ed.) *AI\*IA 97: Advances in Artificial Intelligence - Proceeding of the 5th Congress of the Italian Association for Artificial Intelligence*, Rome, I, September 17-19, 1997, Springer Verlag, Berlin, LNAI 1321, 1997, pp. 242-253.
- 1998
95. Tasso, C. and de Arantes e Oliveira, E.R. (Eds.) *Development of Knowledge-Based Systems for Engineering*. Springer Verlag, Wien - New York, 1998.
  96. Tasso, C. An Introduction to Artificial Intelligence and to the Development of Knowledge-Based Systems. In C. Tasso and E.R. de Arantes e Oliveira (Eds.) *Development of Knowledge-Based Systems for Engineering*. Springer Verlag, Wien - New York, 1998, pp. 11-26.
- 1999
97. Tasso C. and Armellini M. Exploiting User Modeling Techniques in Integrated Information Services: The TECHFINDER System. In E. Lamma and P. Mello (Eds.) *Proceedings of the 6th Congress of the Italian Association for Artificial Intelligence*, Bologna, I, September 14-17, 1999, Pitagora Editrice, Bologna, 1999, pp. 519-522.
  98. Adey, R.A., Pighin, M., Tasso, C. (Eds.), Special Issue on Software Quality Engineering. *Advances in Engineering Software* 30(12), 1999, pp. 885-919.
- 2000
99. Tasso, C., Prefazione. In P. Giangrandi (Ed.) *Numeri e Macchine: Breve Storia degli Strumenti di Calcolo – Catalogo*, Mathesis, Udine, 2000, p. 9.
- 2002
100. Tasso, C. and Omero P., *La personalizzazione dei Contenuti Web: E-Commerce, I-Access, E-Government*, Franco Angeli, Milano, 2002. ISBN 8846435230
  101. Brajnik G., Mizzaro S., Tasso C., Venuti F., Strategic Help in User Interfaces for Information Retrieval, *Journal of the American Society for Information Science and Technology* 53(5), 2002, pp. 343-358.
  102. Mizzaro, S., Tasso, C., Ephemeral and Persistent Personalization in Adaptive Information Access to Scholarly Publications on the Web, *Proceedings of AH2002 – Second International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems*, Malaga, Spain, May 2002, SpringerVerlag, Berlin, LNCS 2347, 2002, pp. 306-316.
  103. Mizzaro, S., Tasso, C. (Eds.) *Personalization in Electronic Publishing on the Web: Trends and Perspectives - Proceedings of the AH'2002 Workshop*, Malaga, Spain, May 2002, Universidad de Malaga, Malaga, Spain, 2002.

104. Mizzaro S., Tasso C. Personalization Techniques in the TIPS Project: The Cognitive Filtering Module and the Information Retrieval Assistant. In S. Mizzaro and C. Tasso (Eds.) *Personalization in Electronic Publishing on the Web: Trends and Perspectives - Proceedings of the AH'2002 Workshop*, Malaga, Spain, May 2002, Universidad de Malaga, Malaga, Spain, 2002, pp. 89-94.
105. Mizzaro, S., Tasso, C. Ephemeral and Persistent Personalization in Adaptive Information Access to Scholarly Publications on the Web (Abstract). *Atti dell'Ottavo Convegno - Workshop su Agenti per la Rappresentazione della Conoscenza ed il Ragionamento - Associazione Italiana per l'Intelligenza Artificiale* -, Siena, I, 10-13 Settembre 2002, p. 47.
106. Tasso, C., Personalizzazione Web per l'E-Learning, *Form@are 16*, Dicembre 2002 ([http://formare.ericsson.it/archivio/dicembre\\_02/tasso.html](http://formare.ericsson.it/archivio/dicembre_02/tasso.html)).
- 2003
107. Cignini M., Mizzaro S. and Tasso C. E- Categorization, Filtering, and Alerting on Mobile Devices: The ifMail Prototype and its Experimental Evaluation. In A. Cappelli and F. Turini (Eds.) *AI\*IA 2003: Advances in Artificial Intelligence - Proceeding of the 8th Congress of the Italian Association for Artificial Intelligence*, Pisa, I, September 2003, Springer Verlag, Berlin, LNAI 2829, 2003, pp. 523-535.
108. Cignini, M. Mizzaro, S., Tasso C. and Virgili A. E-mail on the Move: Categorization, Filtering, and Alerting on Mobile Devices with the ifMail Prototype. In F. Crestani, M. Dunlop and S. Mizzaro (Eds.) *Mobile and Ubiquitous Information Access - Mobile HCI 2003 International Workshop*, Udine, I, September 2003, Springer Verlag, Berlin, LNCS 2954, 2004, pp. 107-123.
- 2004
109. Brusilovski P. and Tasso C. (Eds.) Special Issue on Web Information Retrieval. *User Modeling and User Adapted Interaction – The Journal of Personalization Research* 14(2-3), 2004, pp.145-288.
110. Brusilovski P. and Tasso C. Preface to Special issue on User Modeling for Web information retrieval. *User Modeling and User Adapted Interaction – The Journal of Personalization Research* 14(2-3), 2004, pp.147-157.
111. Tasso, C., Baruzzo, A., Cignini, M., Felice, A., Morandini, A., Omero, P., Polesello, N., Valotto, M., Virgili, C. La Personalizzazione nell'e-Learning: alcuni casi di studio nell'ambito del progetto infoFACTORY, *Form@are 28*, Giugno 2004. ([http://formare.ericsson.it/archivio/giugno\\_04/8tasso.html](http://formare.ericsson.it/archivio/giugno_04/8tasso.html))
112. Aroyo L., Tasso C. (Eds.) *AH 2004: 3<sup>rd</sup> International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems - Workshop Proceedings*, Technische Universiteit Eindhoven, Eindhoven, NL, August 23<sup>rd</sup>, 2004, ISSN 0926-4515.
113. Tasso C., Rossi P.G., Virgili C., and Morandini A., Content-based personalization for asynchronous communication tools: the ifForum system. In L. Aroyo and C. Tasso (Eds.) *AH 2004: 3<sup>rd</sup> International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems - Workshop Proceedings*, Technische Universiteit Eindhoven, Eindhoven, NL, August 23, 2004, ISSN 0926-4515, pp. 324-330.  
Also in: Tasso, C., Rossi, P.G., Virgili, C., and Morandini, A., Content-based personalization for asynchronous communication tools: the ifForum system. *AI\*IA 2004 Workshop: Intelligenza Artificiale e E-Learning - Proceedings*, Perugia, September 15, 2004.
114. Tasso, C., Rossi, P.G., Virgili, C., and Morandini, A., Personalizzazione basata sull'analisi dei contenuti per strumenti di comunicazione asincrona: il sistema ifFORUM. *Form@are 30*, Ottobre 2004. ([http://formare.ericsson.it/archivio/ottobre\\_04/4tasso.html](http://formare.ericsson.it/archivio/ottobre_04/4tasso.html))

115. Tasso, C., Piattaforme Digitali Intelligenti per la Gestione Interattiva di Processi Gestionali e Formativi. In C.R. Alfonsi, M. Carfagna, D. Pedreschi (a cura di) *e-Università: Facciamo il punto*, Fondazione CRUI per le Università Italiane, Roma, I, 2004, pp. 273-288.

2005

116. Tasso, C., Omero, P., Baruzzo, A., Cignini, M., Felice, A., Morandini, A., Polesello, N., Valotto, M., and Virgili, C., Sistemi intelligenti per l'accesso all'informazione Web, il knowledge management e le comunità virtuali: il Progetto infoFACTORY. In M. Michelini e M. Pighin (a cura di) *Atti del XLIII Congresso Annuale AICA - Associazione Italiana per l'Informatica ed il Calcolo Automatico*, Udine, I, 5-7 Ottobre 2005, pp. 189 - 199.
117. Tasso, C., Rossi, P.G., Morandini, A., and Virgili, C., Personalizzazione basata sull'analisi dei contenuti per strumenti di comunicazione asincrona: il sistema ifFORUM. In M. Michelini e M. Pighin (a cura di) *Atti del XLIII Congresso Annuale AICA - Associazione Italiana per l'Informatica ed il Calcolo Automatico*, Udine, I, 5-7 Ottobre 2005, pp. 200 - 208.

2006

118. Rossi P. G., Brodник A., Jonsson H., Tasso, C. Interoperability and Semantic Filtering. *Je-LKS - Journal of e-learning and knowledge society* 2, 2006, pp. 165-175. ISSN 1826-6223

2007

119. Omero P., Polesello N., Tasso C., Personalized intelligent information services within an online digital library for medicine: the BIBLIOMED system. In A. Agosti, F. Esposito and C. Tanos (Eds.) *Post-Proceedings of the 3rd Italian Research Conference on Digital Library Systems (IRCDL 2007)*, Padova, Italy, January 29-30, 2007, pp. 46-51. ISBN 2-912335-35-3.
120. Casoto P., Tasso C., An Hybrid Approach for Improving Word Sense Disambiguation and Text Clustering. In A. Agosti, F. Esposito and C. Tanos (Eds.) *Post-Proceedings of the 3rd Italian Research Conference on Digital Library Systems (IRCDL 2007)*, Padova, Italy, January 29-30, 2007, pp. 46-51. ISBN 2-912335-35-3.

2008

121. Pudota N., Casoto P., Dattolo A., Omero P., Tasso C., Towards bridging the gap between Personalization and Information Extraction. In M. Agosti, F. Esposito, C. Thanos (Eds.): *Post-proceedings of IRCDL 2008 - 4th Italian Research Conference on Digital Library Management Systems*, Padova, Italy, January 24-25, 2008, pp. 33-40.
122. Casoto P., Dattolo A., Omero P., Pudota N., Tasso C., A New Machine Learning Based Approach for Sentiment Classification of Italian documents. In M. Agosti, F. Esposito, C. Thanos (Eds.): *Post-proceedings of IRCDL 2008 - 4th Italian Research Conference on Digital Library Management Systems*, Padova, Italy, January 24-25, 2008, pp. 77-82.
123. Casoto P., Dattolo A., Ferrara, F., Omero P., Pudota N., Tasso C., Generating and sharing personal information spaces. *Workshop on Adaptation for the Social Web*, AH-2008, 5th Int. Conf. on Adaptive Hypermedia and Adaptive Web-Based Systems, 29 July - 1 August 2008, Hannover, Germany.
124. Casoto, P. Dattolo A., Tasso C., Sentiment Classification for the Italian Language: a Case Study on Movie Reviews. *Special issue on Intelligent Agents and Data Mining, Journal of Internet Technology*, 9(4), pp. 365-373, 2008. ISSN 1607-9264.

2009

125. Baruzzo, A., Casoto, P. Dattolo A., Tasso C., A Conceptual Model for Digital Libraries Evolution.

In *WEBIST '09 - Proceedings of the 5<sup>th</sup> International Conference on Web Information Systems and Technologies*, Lisbon, pp. 299 – 304, 2009. ISBN: 978-989-8111-81-4.

126. Dattolo, A., Tasso, C., Farzan, R., Kleanthous, S., Bueno Vallejo, D., Vassileva, J. (Eds.) *Proceedings of the UMAP 2009 International Workshop on Adaptation and Personalization for Web 2.0 (AP-WEB 2.0 2009)*, Trento, Italy, June 22, 2009. [CEUR Workshop Proceedings, ISSN 1613-0073, online <http://ceur-ws.org/Vol-485>]
127. Dattolo, A., Ferrara, F., Tasso, C., Supporting Personalized User Concept Spaces and Recommendations for a Publication Sharing System. *Proceedings of the 17th International Conference, UMAP 2009, formerly UM and AH*, Trento, Italy, June 22-26, 2009. LNCS 5535, Springer Verlag, Berlin Heidelberg, 2009, pp. 325 – 330. ISSN: 0302-9743.
128. Baruzzo, A., Dattolo, A., Pudota, N., Tasso, C., A General Framework for Personalized Text Classification and Annotation. In A. Dattolo et al. (Eds.) *Proceedings of the UMAP 2009 International Workshop on Adaptation and Personalization for Web 2.0 (AP-WEB 2.0 2009)*, Trento, Italy, June 22, 2009, pp. 31-39. [CEUR Workshop Proceedings, ISSN 1613-0073, online <http://ceur-ws.org/Vol-485/paper4-F.pdf> Vol. 485]
129. Dattolo, A., Ferrara, F., Tasso, C., Modelling a Publication Sharing System 2.0. *International IEEE Conference on Human Computer Interaction (HSI'09)*, Catania, Italy, May 21-23, 2009, pp. 495 – 501. ISBN: 978-1-4244-3960-7. (Best Paper Award)
130. Baruzzo, A., Casoto, P., Dattolo, A., and Tasso, C., Handling Evolution in Digital Libraries. In M. Agosti, F. Esposito, and C. Thanos (Eds.) *Post-proceedings of the 5th Italian Research Conference on Digital Libraries - IRCDL 2009*, Padova, Italy, January 29-30, 2009, pp. 34-50. ISBN: 978-88-903541-7-5.
131. Dattolo, A., Ferrara, F., Tasso, C., Neighbor Selection and Recommendations in Social Bookmarking Tools. *Proceedings of the Special Session on Tags and Recommendations in Web 2.0, ISDA '09 International Conference on Intelligent Systems Design and Applications*, Pisa, Italy, November 30 – December 2, 2009, pp.267-272. DOI: 10.1109/ISDA.2009.245. ISBN: 978-0-7695-3872-3. The paper has been presented also in: IV Workshop of the Working Group on “Intelligenza Artificiale e E-Learning” December 12, 2009 – Reggio Emilia, I, 2009.
132. Casoto, P., Dattolo, A., Omero, P., Pudota, N. and Tasso, C., Accessing, analyzing, and extracting information from user generated contents: open issues and challenges. In S. Murugesan (Ed.) *Handbook of Research on Web 2.0, 3.0 and X.0: Technologies, Business, and Social Applications*. IGI-Global, Hershey, PA, USA, November 2009, Chapter 18, pp. 312-328. ISBN: 978-1-60566-384-5. DOI: 10.4018/978-1-60566-384-5.ch018
133. Baruzzo, A., Dattolo, A., Pudota, N., Tasso, C., Recommending new tags using domain ontologies. *Proceedings of CIAO 2009 - Workshop on Computational Intelligence Approach for Ontology-Based Knowledge Discovery, IEEE/WIC/ACM International Joint Conferences on Web Intelligence and Intelligent Agent Technologies*, Milan, Italy, September 15-18, 2009, IEEE Computer Society, 2009, pp. 409-412. ISBN 978-0-7695-3801-3 DOI 10.1109/WI-IAT.2009.313
134. Baruzzo, A., Casoto, P., Challapalli, P., Dattolo, A., Pudota, N., e Tasso, C., Toward Semantic Digital Libraries: Exploiting Semantic Web in Cultural Heritage. *JODI - Journal of Digital Information*, 10(6), 2009. Special Issue on Information Access to Cultural Heritage. ISSN 1368-7506.  
[online: <http://journals.tdl.org/jodi/article/viewArticle/688/576> ]

2010

135. Pudota, N., Dattolo, A., Baruzzo, A. and Tasso, C., A New Domain Independent Keyphrase Extraction System. *6th Italian Research Conference on Digital Libraries - IRCDL 2010*, Padova, Italy, January 28-29, 2010.

136. Cena, F., Dattolo, A., Kleanthous, S., Bueno, D., Tasso, C., Vassileva, J. (Eds.) *Proceedings of the International Workshop on Adaptation in Social Semantic Web – SASweb-2010*, Big Island of Hawaii, USA, CEUR Workshop Proceedings, June 21, 2010. ISSN 1613-0073 [online: <http://CEUR-WS.org/Vol-590>]
137. Pudota, N., Dattolo, A., Baruzzo, A., Tasso, C., A New Domain Independent Keyphrase Extraction System. In M. Agosti, F. Esposito, C. Thanos (Eds.) *Digital Libraries – 6th Italian Research Conference, IRCDL 2010*, Padua, I, January 28-29, 2010, Revised Selected Papers, Springer-Verlag Berlin Heidelberg, 2010, pp. 67-78. ISBN : 978-3-642-15849-0. DOI: 10.1007/978-3-642-15850-6.
138. Ferrara, F., Torre, I., Sarti, L., Tasso, C., Dattolo, A., Bocconi, S., Earp, L., Resources and users in the tagging process: Approaches and case studies. *Je-LKS - Journal of e-Learning and Knowledge Society*, 6(2), 2010 , pp. 37-51. [online version: ISSN 1971-8829 [http://je-lks.maieutiche.economia.unitn.it/index.php/Je-LKS\\_EN/article/download/411/401](http://je-lks.maieutiche.economia.unitn.it/index.php/Je-LKS_EN/article/download/411/401)] [hardcopy version: ISSN 1826-6223]. Published also in Italian with the title “Risorse e utenti nei processi di tagging: approcci e casi di studio”.
139. Pudota, N., Dattolo, A., Baruzzo, A., Ferrara, F., Tasso, C., Automatic keyphrase extraction and ontology mining for content-based tag recommendation. *International Journal of Intelligent Systems. Special Issue: New Trends for Ontology-Based Knowledge Discovery* 25(12), December 2010 pp. 1158-1186. ISSN: 0884-8173. DOI: 10.1002/int.20448.
140. Dattolo, A., Ferrara, F., Tasso, C., The role of tags for recommendation: A survey. *Proceedings of the 3rd International Conference on Human System Interaction - HSI'2010*, Rzeszow, Poland, May 13-15, 2010, pp. 548-555. IEEE press. ISBN: 978-1-4244-7561-2.

2011

141. Ferrara, F., Pudota, N., Tasso, C., A Keyphrase-Based Paper Recommender System. *7th Italian Research Conference on Digital Libraries - IRCDL 2011*, Pisa, Italy, January 20-21, 2011.
142. Dattolo, A., Ferrara, F., Tasso, C., On social semantic relations for recommending tags and resources using folksonomies. In Z. Hippe, J. Kulikowski, T. Mroczek, (Eds.) *Human – Computer Systems Interaction: Backgrounds and Applications 2 - Part 1. Series: Advances in Intelligent and Soft Computing*, Vol. 98. 1st Edition., 2011, pp. 311-326. ISBN 978-3-642-23186-5.
143. Al Machot, F., Tasso, C., Dieber, B., Kyamakya, K., Piciarelli, C., Micheloni, C., Londero, S., Omero, P., Rinner, B., Smart Resource-aware Multimedia Sensor Network for Automatic Detection of Complex Events. *Proceedings of 2011 8th IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS 2011) - Workshop on Multimedia Systems for Surveillance (MMSS)*, Klagenfurt (Austria), August 30, 2011, pp. 402-407. ISBN: 978-1-4577-0845-9.
144. Ferrara, F., Tasso, C., Extracting and Exploiting Topics of Interests from Social Tagging Systems. In A. Bouchachia (Ed.) *Adaptive and Intelligent Systems – Proceedings of the Second Intl. Conference ICAIS 2011*, Klagenfurt, Austria, September 6-8, 2011, LNAI - Lecture Notes in Artificial Intelligence 6943, Springer-Verlag Berlin Heidelberg, 2011, pp.285–296. ISBN 978-3-642-23856-7 - DOI 10.1007/978-3-642-23857-4
145. Al Machot, F., Dieber, B., Hossli, P., Kyamakya, K., Londero, S., Micheloni, C., Omero, P., Piciarelli, C., Rinner, B., Tasso, C., Valotto, M., Smart Demo session: Smart Resource-Aware Multi-Sensor Network. *Proceedings of 2011 8th IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS 2011)*, Klagenfurt (Austria), August 30, 2011, pp. 529-530. ISBN: 978-1-4577-0845-9. DOI:10.1109/AVSS.2011.6027401
146. Leitner, G., Ferrara, F., Felfernig, F. and Tasso, C. Decision Support in the Smart Home. In *Proceedings of the International Workshop on Human Decision Making in Recommender Systems, RecSys 2011*, October 23-27, 2011, Chicago, IL, USA, pp. 8-16.

147. Ferrara, F., Pudota, N. and Tasso, C. A Keyphrase-Based Paper Recommender System. In M. Agosti, F. Esposito, C. Meghini, N. Orio, (Eds.): *IRCDL, Communications in Computer and Information Science (CCIS) 249*, Springer-Verlag Berlin Heidelberg, 2011, pp. 14-25. Extended Version of 141. ISBN 978-3-642-27301-8.
148. Ferrara, F. and Tasso, C. A Personalized Intelligent Recommender and Annotator TESTbed for text-based content retrieval and classification: the PIRATES Project. In M. Agosti, F. Esposito, C. Meghini, N. Orio, (Eds.): *IRCDL, Communications in Computer and Information Science (CCIS) 249*, Springer-Verlag Berlin Heidelberg, 2011, pp. 136-139. ISBN 978-3-642-27301-8.
149. Ferrara, F. and Tasso, C. Improving Collaborative Filtering in Social Tagging Systems. In *Proceedings of the Workshop on Knowledge Extraction and Exploitation from semi-Structured Online Sources, 14<sup>th</sup> Conference of the Spanish Association for Artificial Intelligence - CAEPIA 2011*, 8 November 2011, La Laguna, Tenerife, Spain. LNAI – Lecture Notes in Artificial Intelligence 7023, Springer-Verlag Berlin Heidelberg 2011, pp. 463-472. ISBN 978-3-642-25273-0.

2012

150. Ferrara, F., Tasso, C. Extracting keyphrases from Web pages. *8th Italian Research Conference on Digital Libraries - IRCDL 2012*, Bari, Italy, February 9-10, 2012.
151. Ferrara, F. and Tasso, C. Integrating semantic relatedness in a collaborative filtering system. In Harald Reiterer, Oliver Deussen (Eds.): *Mensch & Computer 2012 - Proceedings of the 19th International Workshop on Personalization and Recommendation on the Web and Beyond*, Konstanz, Germany, 9 September 2012, pp. 75–82.
152. Ferrara, F. and Tasso, C. A Keyphrase Extraction Approach for Social Tagging Systems. In Ana L. N. Fred, Joaquim Filipe (Eds.): *Proceedings of the International Conference on Knowledge Discovery and Information Retrieval*, Barcelona, Spain, 4-7 October 2012, pp. 362-365. SciTePress 2012, ISBN 978-989-8565-29-7

2013

153. Ferrara, F. and Tasso, C. Exploiting Wikipedia for evaluating semantic relatedness mechanisms. In the *9th Italian Conference on Digital Libraries- IRCDL '13*, 31 January-1 February 2013, Rome, Italy.
154. Ferrara, F. and Tasso, C. Extracting Keyphrases from Web Pages. In M. Agosti, F. Esposito, S. Ferilli, N. Ferro (Eds.) *Digital Libraries and Archives - 8th Italian Research Conference, IRCDL 2012 – Revised Selected Papers*, Bari, Italy, February 9-10, 2012, CCIS – Communications in Computers and Information Science 354, Springer-Verlag Berlin Heidelberg 2013, pp.93-112.
155. Ferrara, F. and Tasso, C. Evaluating the results of methods for computing semantic relatedness. Alexander Gelbukh (Eds.): *Proceedings of CICLing 2013 - 14th International Conference on Intelligent Text Processing and Computational Linguistics*, Samos, Greece, March 24–30, 2013, LNCS 7816, Springer-Verlag Berlin Heidelberg 2013, pp. 447-458. ISBN 978-3-642-37246-9.
156. De Nart, D., Ferrara, F., Tasso, C. Personalized Access to Scientific Publications: from Recommendation to Explanation. In Sandra Carberry, Stephan Weibelzahl, Alessandro Micarelli, Giovanni Semeraro (Eds.) *User Modeling, Adaptation, and Personalization – Proceedings 21th International Conference, UMAP 2013*, Rome, Italy, June 10-14, 2013, LNCS 7899, Springer-Verlag Berlin Heidelberg 2013, pp. 296-301. ISBN 978-3-642-38843-9
157. De Nart, D., Ferrara, F., Tasso, C. RES: A Personalized Filtering Tool for CiteSeerX Queries Based on Keyphrase Extraction. In Sandra Carberry, Stephan Weibelzahl, Alessandro Micarelli, Giovanni Semeraro (Eds.) *User Modeling, Adaptation, and Personalization – Proceedings 21th*

*International Conference, UMAP 2013*, Rome, Italy, June 10-14, 2013, LNCS 7899, Springer-Verlag Berlin Heidelberg 2013, pp. 341-343. ISBN 978-3-642-38843-9

158. De Nart, D., Ferrara, F., Tasso, C. Personalized Recommendation and Explanation by using Keyphrases Automatically extracted from Scientific Literature. In Kecheng Liu, Ana Fred and Joaquim Filipe (Eds.) *KDIR 2013 KMIS 2013 - Proceedings of the International Conference on Knowledge Discovery and Information Retrieval and the International Conference on Knowledge Management and Information Sharing*, Vilamoura, Algarve, Portugal, 19-22 September, 2013, pp. 96-103, SciTePress 2013. ISBN: 978-989-8565-75-4.
159. De Nart, D. and Tasso, C. A Keyphrase Generation Technique Based upon Keyphrase Extraction and Reasoning on Loosely Structured Ontologies. In Cristina Lai, Giovanni Semeraro and Alessandro Giuliani (Eds.) *DART@AI\*IA 2013 - Information Filtering and Retrieval, Proceedings of the 7th International Workshop on Information Filtering and Retrieval, co-located with the 13th Conference of the Italian Association for Artificial Intelligence (AI\*IA 2013)*, Turin, Italy, December 6, 2013, pp. 49-60, CEUR Workshop Proceedings, Vol-1109, ISSN: 1613-0073.

2014

160. De Nart, D. and Tasso, C. A Personalized Concept-Driven Recommender System for Scientific Libraries. In the *10th Italian Conference on Digital Libraries- IRCDL'14*, 30-31 January 2014, Padua, Italy.
161. De Nart, D. and Tasso, C. A Personalized Concept-Driven Recommender System for Scientific Libraries. *Procedia Computer Science*, Vol. 38, 2014, Pages 84–91, 10th Italian Research Conference on Digital Libraries, IRCDL 2014. doi:10.1016/j.procs.2014.10.015
162. Ferrara, F. and Tasso, C. Exploiting Wikipedia for evaluating semantic relatedness mechanisms. In T. Catarci, N. Ferro and A. Poggi (Eds.): *Bridging Between Cultural Heritage Institutions – 9th Italian Research Conference, IRCDL 2013, Rome, Italy, January 31 – February 1, 2013, Revised Selected papers*. CCIS 385, Springer-Verlag Berlin Heidelberg 2014, pp. 105-117. Extended version of 153.
163. De Nart, D. and Tasso, C. A Domain Independent Double Layered Approach to Keyphrase Generation. In V. Monfort and K.-H. Krempels (Eds.) *WEBIST 2014 - Proceedings of the 10th International Conference on Web Information Systems and Technologies*, Volume 2, Barcelona, Spain 3 - 5 April 2014, SCITEPRESS – Science and Technology Publications, 2014, pp. 305-312. ISBN: 978-989-758-024-6
164. Mazzocut, M., Antonini, M., Truccolo, I., Omero, P., Ferrarin, E., Gandelli, R., Gruarin, N., Tasso, C. How deep is the sea: Web Intelligence for Patient Education, *Proceedings of the 14th EAHIL 2014 Conference*, 11-13 June 2014, Rome, Italy.
165. De Nart, D., Tasso, C., Degl’Innocenti, D. Users as crawlers: exploiting metadata embedded in Web pages for user profiling. In I. Cantador, M. Chi, R. Farzan, R. Jäschke (Eds.) *Posters, Demos, Late-breaking Results and Workshop Proceedings of the 22nd Conference on User Modeling, Adaptation, and Personalization co-located with the 22nd Conference on User Modeling, Adaptation, and Personalization (UMAP2014)*, Aalborg, Denmark, July 7-11, 2014, CEUR Workshop Proceedings, Vol-1181, pp.28-37. ISSN: 1613-0073, DOI: 10.13140/2.1.3604.0969
166. De Nart, D., Tasso, C., Degl’Innocenti, D. A Semantic Metadata Generator for Web Pages Based on Keyphrase Extraction. In: (a cura di): Matthew Horridge, Marco Rospocher, Jacco van Ossenbruggen, *Proceedings of the ISWC 2014 Posters & Demonstrations Track*. CEUR WORKSHOP PROCEEDINGS, vol. 1272, pp. 201-204, CEUR-WS.org, ISSN: 1613-0073, Riva del Garda, Italy, October 21, 2014.
167. De Nart, D., Tasso, C., Degl’Innocenti, D. A thin-server approach to ephemeral Web personalization exploiting RDF data embedded in Web pages. In: (a cura di): Stefan Decker,



Mathieu d'Aquin, Christopher Brewster, Sabrina Kirrane, *Society, Privacy and the Semantic Web - Policy and Technology*. CEUR WORKSHOP PROCEEDINGS, vol. 1316, CEUR-WS.org, ISSN: 1613-0073, Trento, Italy, October 20, 2014.

168. Degl'Innocenti, D., De Nart, D., Tasso, C. (2014). A New Multi-lingual Knowledge-base Approach to Keyphrase Extraction for the Italian Language. In: (a cura di): Joaquim Filipe, Ana Fred, *Proceedings of the 6th International Conference on Knowledge Discovery and Information Retrieval*. pp. 78-85, SciTePress, ISBN: 9789897580482, Rome, 21-24, October 2014

2015

169. De Nart, D., Degl'Innocenti, D., Basaldella, M. and Tasso, C. A Content-Based Approach to Social Network Analysis: a Case Study on Research Communities. In the *11th Italian Conference on Digital Libraries- IRCDL'15*, 29-301 January 2015, Bolzano, Italy.
170. Marco Basaldella, Dario De Nart, and Carlo Tasso. "Introducing Distiller: A Unifying Framework for Knowledge Extraction." In: *Proceedings of 1st AI\*IA Workshop on Intelligent Techniques At Libraries and Archives co-located with XIV Conference of the Italian Association for Artificial Intelligence, IT@LIA@AI\*IA 2015*, Ferrara, Italy, September 22, 2015. Ed. by Stefano Ferilli and Nicola Ferro. Vol. 1509 . CEUR Workshop Proceedings. CEUR-WS.org, 2015.
171. De Nart, D., Degl'Innocenti, D., Pavan, A., Basaldella, M., and Tasso, C. (2015b). Modelling the user modelling community (and other communities as well). In Ricci, F., Bontcheva, K., Conlan, O., and Lawless, S., editors, *User Modeling, Adaptation and Personalization*, Lecture Notes in Computer Science vol. 9146, pp. 357–363. Springer International Publishing. 2015.
172. De Nart, D., Degl'Innocenti, D., and Tasso, C. .Introducing distiller: a lightweight framework for knowledge extraction and filtering. In *Posters, Demos, Late-breaking Results and Workshop Proceedings of the 23rd Conference on User Modeling, Adaptation, and Personalization (UMAP 2015)*, Dublin, Ireland, June 29 - July 3, 2015.
173. Degl'Innocenti, D., De Nart, D., and Tasso, C. . A novel knowledge-based architecture for concept mining on italian and english texts. In Fred, A., Dietz, J. L. G., Aveiro, D., Liu, K., and Filipe, J., editors, *Knowledge Discovery, Knowledge Engineering and Knowledge Management, Communications in Computer and Information Science* vol. 553, pp. 132–142. Springer International Publishing.

2016

174. De Nart, D., Degl'Innocenti, D., Peressotti, M. and Tasso, C. Stratifying Semantic Data for Citation and Trust: an Introduction to RDFDF. In the *12th Italian Conference on Digital Libraries- IRCDL'16*, 4-5 February 2016, Florence, Italy.
175. Mazzocut, M., Truccolo, I., Antonini, M., Rinaldi, R., Omero, P., Ferrarin, E., De Paoli, P. and Tasso, C., Web Conversations About Complementary and Alternative Medicines and Cancer: Content and Sentiment Analysis, *Journal of Medical Internet Research* 18(6):e120, 2016. DOI: 10.2196/jmir.5521
176. Dante Degl'Innocenti, Dario De Nart, and Carlo Tasso. The importance of being referenced: Introducing referential semantic spaces. In *Proceedings of the Joint Second Workshop on Language and Ontologies (LangOnto2) & Terminology and Knowledge Structures (TermiKS), Workshop Abstracts*, Tenth International Conference on Language Resources and Evaluation (LREC 2016), Portorož, Slovenia, May 23, 2016., 2016.
177. Helmy, M., De Nart, D., Degl'Innocenti, D. and Tasso, C. Leveraging Arabic Morphology and Syntax for Achieving Better Keyphrase Extraction, *Proceedings of the 20th International Conference on Asian Language Processing (IALP)*. Tainan (Taiwan), November 21-23, 2016.
178. Basaldella, M., Chiaradia, G. and Tasso, C. Evaluating anaphora and coreference resolution to improve automatic keyphrase extraction, In N. Calzolari, Y. Matsumoto, and R. Prasad (Eds.),

*Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers*, pp. 804-814, December 2016, Osaka, Japan. Publisher: The COLING 2016 Organizing Committee. ISBN: 978-4-87974-702-0

179. Calvanese, D., De Nart, D., Tasso, C. (Eds.) *Digital Libraries on the Move - 11th Italian Research Conference on Digital Libraries, IRCDL 2015 – Revised Selected Papers*, Bolzano, Italy, January 29-30, 2015, CCIS – Communications in Computers and Information Science 612, Springer-Verlag Berlin Heidelberg 2016. DOI 10.1007/978-3-319-41938-1
180. De Nart, D., Degl'Innocenti, D., Basaldella, M., Agosti, M. and Tasso, C. A Content-Based Approach to Social Network Analysis: a Case Study on Research Communities. In D. Calvanese, D. De Nart, C. Tasso (Eds.) *Digital Libraries on the Move - 11th Italian Research Conference on Digital Libraries, IRCDL 2015 – Revised Selected Papers*, Bolzano, Italy, January 29-30, 2015, CCIS – Communications in Computers and Information Science 612, Springer-Verlag Berlin Heidelberg 2016, pp. 142 – 154. DOI 10.1007/978-3-319-41938-1
181. Basaldella, M., Furrer, L., Colic C., Ellendorff , C., Tasso C. and Rinaldi F. Using a Hybrid Approach for Entity Recognition in the Biomedical Domain. In M. Neves et al. (Eds.) *Proceedings of the 7th International Symposium on Semantic Mining in Biomedicine (SMBM 2016)*, Potsdam, Germany, August 4-5, 2016, pp. 11-19, CEUR Workshop Proceedings, Vol-1650, CEUR-WS.org, ISSN: 1613-0073

2017

182. Basaldella, M., Furrer, L., Tasso, C., Rinaldi, F. Entity recognition in the biomedical domain using a hybrid approach. *Journal of Biomedical Semantics* 8(1), 2017. DOI 10.1186/s13326-017-0157-6
183. Dante Degl'Innocenti, Dario De Nart, Muhammad Helmy, and Carlo Tasso. Fast, accurate, multilingual semantic relatedness measurement using Wikipedia links. In Khaled Shaalan, Aboul-Ella Hassanien, and M.F.Tolba (Eds.), *Intelligent Natural Language Processing: Trends and Applications*, Intelligent Systems Reference Library. Springer International Publishing, 2017.
184. Marco Basaldella, Carlo Tasso, et al. Exploiting and Evaluating a Supervised, Multilanguage Keyphrase Extraction pipeline for under-resourced languages. In: *Recent Advances In Natural Language Processing 2017 (RANLP 2017)*, Varna (Bulgaria), September 4-6 2017. 2017, pp. 78-85. ISBN 978-954-452-048-9

2018

185. Serra G., Tasso C. *Digital Libraries and Multimedia Archives*. DOI:10.1007/978-3-319-73165-0 - ISBN:978-3-319-73164-3. In COMMUNICATIONS IN COMPUTER AND INFORMATION SCIENCE, Springer Verlag, 2018 - ISSN:1865-0929 vol. 806.
186. Basaldella M., Antolli E.; Serra G., Tasso C. Bidirectional LSTM recurrent neural network for keyphrase extraction. DOI:10.1007/978-3-319-73165-0\_18. pp.180-187. In G. Serra, C. Tasso (Eds.) *Digital Libraries and Multimedia Archives. 14th Italian Research Conference on Digital Libraries*, Udine, January 2018, CCIS, Springer Verlag, vol. 806, p. 180-187, 2018.
187. Basaldella M., Serra G., Tasso C. The Distiller framework: Current state and future challenges. In G. Serra, C. Tasso (Eds.) *Digital Libraries and Multimedia Archives. 14th Italian Research Conference on Digital Libraries*, Udine, January 2018, CCIS, Springer Verlag, vol. 806, p. 93-100, 2018.
188. Degl'Innocenti D., De Nart D., Helmy M., Tasso C., Fast, Accurate, Multilingual Semantic Relatedness Measurement using Wikipedia Links, *Intelligent Natural Language Processing: Trends and Applications, Studies in Computational Intelligence*, vol. 740, p. 571–584, 2018.

2018

189. Passon, M., Lippi M., Serra G., Tasso C. Predicting the Usefulness of Amazon Reviews Using Off-The-Shelf Argumentation Mining. In *Proceedings of the 5th Workshop on Argument Mining, ArgMining@EMNLP 2018*, Brussels, Belgium, November 1, 2018, Association for Computational Linguistics 2018, pp. 35-39. ISBN 978-1-948087-69-8
190. Helmy M., Vigneshram R.M., Serra G., Tasso C., Applying Deep Learning for Arabic Keyphrase Extraction. *Procedia Computer Science* 142 (2018) 254–261 – *Proceedings of the 4th International Conference on Arabic Computational Linguistics (ACLing 2018)*, November 17-19 2018, Dubai, UAE.

2019

191. Passon M., Comuzzo M., Serra G., Tasso C. Keyphrase Extraction via an Attentive Model. In P. Manghi, · L. Candela, G. Silvello (Eds.) *Digital Libraries: Supporting Open Science. Proceedings of the 15th Italian Research Conference Digital Libraries, IRCDL 2019*, Pisa, Italy, January 31 – February 1, 2019, CCIS, Springer Verlag, vol. 988, 2019, pp.304 -314, 2019. DOI: 10.1007/978-3-030-11226-4.
192. Zamprogno M., Passon M., Martinel N., Serra G., Lancioni G., Micheloni C., Tasso C., Foresti G.L.. Video-Based Convolutional Attention for Person Re-Identification. In E. Ricci, S. Rota Bulò, C. Snoek, O. Lanz, S. Messelodi, N. Sebe (Eds.) *Image Analysis and Processing - ICIAP 2019 - 20th International Conference*, Trento, Italy, September 9-13, 2019, *Proceedings, Part I*. Lecture Notes in Computer Science 11751, Springer 2019, pp. 3-14. ISBN 978-3-030-30641-0
193. Zamprogno M., Passon M., Martinel N., Serra G., Lancioni G., Micheloni C., Tasso C., Foresti G.L.. Video-Based Convolutional Attention for Person Re-Identification. *CoRR Computer Research Repository* abs/1910.04056, 2019. ISSN 2331-8422

2020

194. Menardi M., Falcon A., Saida S. Mohamed, Seidenari L., Serra G., Del Bimbo A., Tasso C. Text-to-Image Synthesis Based on Machine Generated Captions. In M. Ceci, S. Ferilli, A. Poggi (Eds.) *Digital Libraries: The Era of Big Data and Data Science - 16th Italian Research Conference on Digital Libraries, IRCDL 2020*, Bari, Italy, January 30-31, 2020, Proceedings. Communications in Computer and Information Science 1177, Springer 2020, pp.62-74. ISBN 978-3-030-39904-7
195. Omero P., Valotto M., Bellana R., Bongelli R., Riccioni I., Zuczkowski A., Tasso C. Writer's Uncertainty Identification in Scientific Biomedical Articles: a Tool for Automatic If-clause Tagging. *Language Resources and Evaluation*, 2020, in print.
196. Falcon A., D'Agostino G., Serra G., Brajnik G., Tasso C. A Dual-Stream architecture based on Neural Turing Machine and Attention for the Remaining Useful Life Estimation problem. In A. Bregon (Ed.) *Proceedings of the 5<sup>th</sup> European Conference of the PHM Society 2020, PHME 2020*. Vol. 5 No.1. Virtual Conference, July 27-31, 2020. ISBN 978-1-936263-32-5
197. Falcon A., D'Agostino G., Serra G., Brajnik G., Tasso C. A Neural Turing Machine-based approach to Remaining Useful Life Estimation”, In *ICPHM2020, IEEE International Conference on Prognostics and Health Management*. Detroit, MI, USA, June 8-10, 2020, pp. 1-8. DOI 10.1109/ICPHM49022.2020.9187043 ISBN 978-1-7281-6286-7
198. Lancioni G., S.Mohamed S., Portelli B., Serra G., Tasso C. Keyphrase Generation with GANs in Low-Resources Scenarios. In *SustainNLP 2020, First Workshop on Simple and Efficient Natural Language Processing*, 2020.

199. Tasso C., Amaduzzi S., Cadez L. *Università e Nuove Tecnologie*. FORUM, Udine, 2020.

2021

200. Lancioni G., S.Mohamed S., Portelli B., Serra G., Tasso C. Efficient Keyphrase Generation with GANs. In D.Dosso, S.Ferilli, P.Manghi, A.Poggi (Eds.) *Proceeding of IRCDL 2021 - 17th Italian Research Conference on Digital Libraries, Padua, Italy, February 18-19, 2021*, CEUR Workshop Proceeding Vol-2816, pp.1-12.

Carlo Tasso

A handwritten signature in black ink, reading 'Carlo Tasso', with a long horizontal flourish extending to the right.

Udine, December 2021.