

**CURRICULUM dell'ATTIVITA'
SCIENTIFICA e DIDATTICA**

del

prof. CARLO TASSO

Nato a Udine il 3 Febbraio 1953. Laureato in Ingegneria Elettronica presso l'Università di Trieste nel 1980. Di ruolo presso l'Università di Udine dal Marzo 1982.

Ha fondato nel 1984 il primo Laboratorio di Intelligenza Artificiale di un'Università italiana.

Professore Ordinario di Sistemi di Elaborazione dell'Informazione (Settore Scientifico Disciplinare ING-INF/05) presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Udine, dal 1995.

Fino all'AA 2021-22 è stato docente di diversi insegnamenti nell'ambito dell'Informatica: 'Intelligenza Artificiale', 'Ingegneria del Software', 'Sistemi Informativi', 'Recommender Systems', 'Ingegneria della Conoscenza e Sistemi Esperti', 'Linguaggi di Programmazione', 'Tecniche di Programmazione', 'Teoria e Applicazione delle Macchine Calcolatrici'.

Dal 1996 al 2004 ha ricoperto le cariche di Direttore del Dipartimento di Matematica e Informatica e di Presidente del Consiglio dei Corsi di Laurea in Informatica. Dal 2004 al 2010 è stato Preside della Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Udine. E' stato Delegato del Rettore per i rapporti con l'India. E' stato membro del Consiglio Direttivo del Centro di Calcolo, del Nucleo di Valutazione, della Commissione Ricerca, delle Commissioni sulla qualità della Didattica e di numerose Commissioni Concorsuali in diversi Atenei italiani. E' stato membro dell'Organo di Indirizzo dell'Azienda Ospedaliero-Universitaria S. Maria della Misericordia di Udine. Dal Febbraio 2016 al 2020 è stato membro del Consiglio di Amministrazione dell'Università di Udine.

Gli interessi di ricerca sono focalizzati nell'area dell'Intelligenza Artificiale. In particolare ha prodotto oltre 200 pubblicazioni scientifiche nei seguenti campi: interfacce uomo-macchina intelligenti, sistemi esperti, modellizzazione dell'utente, accesso intelligente all'informazione, filtraggio delle informazioni, navigazione autonoma nel Web, personalizzazione e raccomandazione dei contenuti in siti e portali Web, machine learning, portali EIP per la gestione della conoscenza e la condivisione delle informazioni, sistemi didattici intelligenti, diagnosi di sistemi artificiali complessi, elaborazione del linguaggio naturale.

Ultimamente si è interessato di tecniche di Intelligenza Artificiale e Machine/Deep

Learning applicative in vari contesti applicativi: analisi di testi in Linguaggio Naturale, analisi concettuale dei contenuti testuali dei documenti, tecniche di analisi e classificazione semantica, taggatura automatica di testi in linguaggio naturale (estratti dal Web e dai social media), tecniche di key-phrase extraction basate su Machine Learning e Deep Learning, applicate in ambito NLP, manutenzione predittiva e forecasting.

Ha fondato nel 2017 il Laboratorio CINI Smart Cities & Communities – Sezione UniUD, all'interno del quale si svolgono attività di ricerca su smart community, smart city, IoT nei sistemi Industrie 4.0. E' stato responsabile della Officina ICT nell'ambito del Progetto Cantiere Friuli dell'Università di Udine, focalizzata sui sistemi ICT avanzati di supporto alle decisioni strategiche, mediante tecniche di big data analytics, indicatori balanced score-card e dashboard.

E' stato responsabile della direzione e del coordinamento di numerosi progetti di ricerca e sviluppo internazionali e nazionali nell'area dell'intelligenza artificiale, tra i quali progetti MIUR, Progetti Finalizzati del CNR e dell'Unione Europea. In particolare, dai primi anni 2000, è stato responsabile dell'unità di ricerca dell'Università di Udine dei progetti:

- TIPS – EU IST 5th FP - Multimedia Contents and Tools: Personalization in Electronic Publishing [2000-2002].
- INDICO – EU IST 5th FP - Multimedia Contents and Tools – Semantic Web Technologies: Multimedia Information Filtering [2002 – 2004].
- UMTS – MIUR Strategic Research Initiatives: Information Filtering for Innovative 3G (UMTS) Wireless Services [2002 – 2004],
- TRI ICT – Interreg Italia Austria [2008 – 2011].
- Smart Energy – Network of Excellence – Interreg Italia Austria [2012 – 2014].

Ha partecipato al progetto ICT for EU-India Cross Cultural Dissemination [2004 - 2006] e al progetto FIRB Istituto Int.le per la Matematica Applicabile e le Scienze dell'Informazione [2008 – 2011], entrambi in collaborazione con il BIRLA Science Center di Hyderabad (India).

Revisore di numerose riviste del settore, è stato chairman di conferenze scientifiche internazionali, è stato membro del comitato di programma di numerosi congressi, ed ha organizzato numerose scuole internazionali di carattere avanzato nell'area dei sistemi basati sulla conoscenza. In particolare è stato General Chair della Conferenza User Modeling '97, membro del Comitato di Programma delle conferenze UM - User Modeling, membro del Comitato di Programma delle Conferenze AH - Adaptive Hypermedia, membro del Comitato di Programma delle Conferenze UMAP – User Modeling & Adaptive Personalization, membro del Comitato di Programma delle Conferenze ACM SIGIR. E' stato membro del Comitato Scientifico di Mondo Digitale, rivista dell'AICA (Associazione Italiane del Calcolo Automatico).

E' stato membro dell'Editorial Board della rivista scientifica 'User Modeling and User Adapted Interaction - The Journal of Personalization Research' di cui ha curato lo Special Issue dedicato a "User Modeling in Information Retrieval on the Web".

E' stato il responsabile scientifico del settore editoriale del Centro Internazionale di Scienze Meccaniche.

E' socio fondatore dell'Associazione Italiana di Intelligenza Artificiale.

Ha costituito nel 2001 il gruppo infoFactory, per la ricerca, sperimentazione e diffusione di sistemi informativi Web innovativi per l'accesso personalizzato alle informazioni digitali, gestione della conoscenza, analisi e filtraggio di informazioni Web. Il gruppo partecipa a progetti di ricerca e sviluppo con enti esterni pubblici e privati e ha dato origine nel 2004 al primo spin-off di ricerca dell'Università di Udine nel campo dell'Information Technology.

E' stato uno dei promotori/progettisti del Ditedi, Distretto delle Tecnologie Digitali che dal 2009 promuove e sostiene la crescita del comparto ICT e la diffusione della cultura digitale nel territorio del Friuli Venezia Giulia e che dal 2016 è l'ente gestore del Cluster ICT della Regione Friuli Venezia Giulia. E' membro del CdA del Ditedi.

Nel Dicembre 2021 è stato socio fondatore di AiperTech srl, spin-off dell'Università di Udine nata per portare sul mercato l'esperienza ed il know-how sviluppato nel Laboratorio di Intelligenza Artificiale.

Carlo Tasso

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

Udine, 27 Ottobre 2021.

ELENCO DELLE PUBBLICAZIONI

CARLO TASSO

(Ottobre 2022)

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.

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

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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.
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Carlo Tasso

A handwritten signature in black ink, reading 'Carlo Tasso' in a cursive script. The signature is fluid and extends to the right with a long horizontal stroke.

Udine, Ottobre 2022.