

Curriculum Vitae: Fabio Ciravegna

Personal Information

Professor Fabio Ciravegna,
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Education and Training:

- 1988: Laurea in Informatica, Università di Torino
- 2003: PhD in Computer Science, University of East Anglia

Work Experience:

- 1988-1993: Researcher at Centro Ricerche Fiat, Orbassano (To)
- 1993-2000: Researcher R1 at Istituto per la Ricerca Scientifica e Tecnologica (currently Fondazione Bruno Kessler), Trento. FBK-IRST is one of the most important publicly-funded research centres in Europe on Research for Artificial Intelligence
- 2000-2003: Senior Research Scientist, Department of Computer Science, The University of Sheffield. Sheffield has the largest Faculty of Engineering in the UK for Research Funds
- 2003-2022: Professor, Department of Computer Science, University of Sheffield
- 2022-present: Professor, Dipartimento di Informatica, Università di Torino

Research and Teaching

Some Notable Achievements (2000-2023)

1. Director of 4 European Projects (over €25M, 45 partners) 2002-2005, 2006-2010, 2012-2016, 2016-2019. Participation in other EU projects with a total of funding of over €80M
2. Creator of 3 university startups (Knowledge Now Ltd in 2007, The Floop Ltd in 2012, Aeqora Ltd in 2020). The Floop Ltd had a \$60m exit in 2022.
3. Director of Research and Innovation (Digital World), University of Sheffield (2009-2012)
4. Funder and academic director of the University Technology Centre on Artificial Intelligence for Defence and Security, funded by the UK Ministry of Defence (2020-2022)
5. Funds obtained: around €13M of research funds plus around €9.5M as Director of Research and Innovation (expected target: €6M). Around 15-20% of my research funds come from industrial or governmental sources.
6. Created technology and released to industry and government (e.g. Rolls Royce plc, Public Health England, JustGiving Ltd, Football Whispers, Glastonbury Festival, etc.)
7. Some of my technologies were used by millions of citizens (e.g. 1 million users of the English National Health System).

Research

My research field concerns data and information acquisition and analysis over large scale (hundreds of million to billions of data points). My research covers four main areas:

- How to capture information over large scale from multiple sources (the Web, the Social Web, distributed organisational archives, mobile devices, drones, sensors, etc.) with a particular focus on sensing using mobile phones.
- How to provide effective analytics of large-scale data;
- How to use the captured information (e.g. for knowledge management, business intelligence, customer analysis, management of large scale events via social media, etc.).
- How to communicate the information (to final users, problem owners, etc.) through visual analytics.

My research covers both fundamental research and applications. I have worked at Technology Readiness Levels¹ between 3 and 9, following ideas from their very inception to the release to hundreds of thousands of users and the spinning out of companies.

Research Funding

I have received consistently large funds over the years from both research funding body and government and industry: Funds obtained: around €13M of research funds plus around €9.5M as Director of Research and Innovation (expected target: €6M). Around 15-20% of my research funds come from industrial or governmental sources.

Leadership

I have a long track record of leadership.

- In 2020-2022 I was the Academic Director and founder of the *University Technology Centre on Artificial Intelligence for Defence and Security*. The centre was funded by the Defence Science and Technology Lab which is part of the Ministry of Defence and by Counter Terrorism UK.
- I was also the CEO of a University spin out company (Aeqora Ltd), a company created to exploit the technology for mobile tracking that I have personally developed and that has been adopted by the National Health Service and used by over 900,000 users. Before that I had created two other spin outs, one of which is one of the largest companies in the world for telematic insurance (The Floop Ltd) with hundreds of thousands of users world-wide and which had an exit of \$69m in 2022.
- I was also non-executive director in two companies that I have co-created. I am also in the scientific board of a company (Active Orbit Ltd) that provides services for city councils.
- Since 2002 I have coordinated 4 multimillion European projects involving over 45 partners and with a total funding of over €25M, effectively coordinating projects nearly uninterrupted between 2002 and 2019. After that Brexit has effectively made it impossible for me to apply for EU funds, especially as coordinator. For example between 2016 and 2019 I was the Director of the European Project *SETA*. Goal of the project was the definition of Big Data Technologies and Methods for Mobility in Large Metropolitan Areas: 15 partners, €5.5m funds (2016-2019). The project involved Comune di Torino. Between 2006 and 2010 I coordinated the EU project *X-Media* (€9.9M funds, 15 partners), which also involved Centro Ricerche Fiat in Orbassano. All the EU projects I have coordinated have reported a review score of outstanding (currently 5).
- Between 2009 and 2012 I was the Director of Research and Innovation for the Digital World, one of the 8 directors leading research and innovation at the University of Sheffield. I was in charge of fostering interdisciplinary digital research across faculties. My target was to achieve £15M worth of grant submissions and £5M of new research

¹ <https://www.gov.uk/government/news/guidance-on-technology-readiness-levels>

funds by 2012 (in the following: £15M/€5M). Starting in 2009 with a £5M/€150K portfolio, in 2012 alone I achieved £37M/€8.45M (€41.75/€9.53M), well above my personal target.

- I led the OAK group at The University of Sheffield on Large Scale Data in the Department of Computer Science between 2008 and 2022.

Professional and External Standing

I get invited often as an international expert by several bodies. Some highlights:

- I was the chair of the Science Foundation Ireland reviewing panel of Insight, one of the largest centres on Data Analytics in the world, November 2017. Insight has over 400 researchers, over 80 industrial partners and a committed budget of over 80 million euro.
- The University of Oslo invited me as external advisor for the project UBIMOD, a flagship project in big data and mobility (2017);
- For five years, I was a member of the annual reviewing panel of Bell Labs Dublin on behalf of the Irish Development Agency (IDA); Bell Labs have €43 million of the investment and directly employ 40 research scientists and engineers.
- In 2013 I was the chair of the reviewing panel of DERI, the largest research centre in the Semantic Web in the world; the reviewers' group I lead included among others Prabhakar Raghavan, Vice President of Engineering at Google, and Natasha Noy, professor at Stanford University. I was a reviewer for the same centre also in 2011 under the leadership of Prof Jim Hendler, one of the founders of the Semantic Web.

International Collaboration

I have a wide network of international collaboration created over years of internationally leading work. In working in European projects I have worked actively with over 60 European partners. As part of my activity in the Semantic Web/Web of Data community, I have worked with dozens of partners from Europe, the USA, and Asia to lead the organisation of conferences and international events/initiatives in the field. Among others:

- I was the general chair of the European Semantic Web Conference in 2009.
- For 13 years I was one of the founders and tutors of the leading International Summer School on Ontological Engineering and the Semantic Web.
- I was service manager in the leading international think tank Semantic Technology Institute in Vienna.
- I was invited as keynote speaker at international conferences and events on the Semantic Web, including the Asian Semantic Conference in 2009.
- I have given several tutorials at international conferences in the field.

Research & Impact

My research spans quite a wide area concerning data and information acquisition and management over large scale. Over the years I have applied my research results to fields as wide as

- Defence: I was the academic director of a centre on AI for defence and security (see above). I have developed technologies for tracking, modelling and predicting human mobility that is received funds for over £300k from the Ministry of Defence.
- Aerospace: I have carried out research in collaboration with Rolls Royce for about 10 years (2005-2015). We have developed a technology for terminology recognition that is in use by over 10,000 employees as part of a knowledge management suite that saves the company over a dozen million a year.
- Environmental monitoring: I have coordinated a multi-million EU project on citizen observatories of water, 2012-2016. I have also done research for the UK Environmental Agency in the past.
- Emergency response: with 3 of my researchers I have created a technology used in the emergency control rooms of events involving over a million people, 2013-2014

- **Transport and Mobility:** I coordinated a large EU project on mobility, 2016-2019; I have co-created a multi-million spin out providing telematics insurance technologies and services to some of the largest international insurers on four continents. I have co-created and led a startup on tracking human motion.
- **Sports:** with my researcher Neil Ireson I have created an IP on large scale social media analysis sold to Football Whispers, 2016;
- **Charity:** our technology has been adopted by JustGiving, the largest donation company in the world, to provide personalised services to their customers, 2015;
- **Images and photography:** I did research for Kodak Inc. in 2004-2005
- **History and archaeology,** doing research projects with the University of Sheffield and University of York,
- **Steel making,** working with Tata Steel, 2014-2015,
- **Car industry:** I worked as a researcher for the Fiat car manufactures (1998-1993).
- **Health and medicine:** I was an active member in two research centres of the University of Sheffield: Insigneo, led by Prof. Marco Viceconti, on in-silico medicine and CATCH, the centre for Assisted Living led by Prof. Luc De Witte. Sheffield Teaching Hospitals Trust has invested in a senior lecturer position in my group to spend 50% of their time providing digital innovation to the hospitals.

My research activity in the area of personal and ubiquitous computing has led to the development of mobile tracking technologies adopted by Public Health England (over 600,000 users in England, since August 2017). For this, I am the designer of the tracking technology and the lead Android developer.

According to Google Scholar, my H-index is 37 and my i10-index is 117 with 6,717 citations.

Spinning Out

I have created three spin-out companies: K-now Ltd (created to support my University group in exploiting its results in 2007) and The Flow Ltd, working on telematics solution for motor insurance (2012) and Aeqora Ltd (working on human mobility solutions).

Teaching

I teach two full modules in the Dipartimento di Informatica of the University of Torino: Object Oriented Programming (year 1) and Mobile Computing (year4). I will teach Web Technologies next academic year. In Sheffield I used to teach Advanced Web Technologies and Mobile Computing. I have created the former module.

I have consistently received excellent student feedback over the years: my formal academic metrics show me among the best 9% of the Faculty of Engineering.

In 2018, I was listed among the Supervisionaries, an informal list of academics of the University of Sheffield who had provided exceptional support to students at PhD level.

In 2011 I was chosen by the students of the Faculty of Engineering as one of the top 20 lecturers.

Awards and Patents

Over the years I have received awards from both industry and academia. The achievement I am most proud of is being shortlisted twice in three years for the *Rolls Royce Director's Creativity Award*, an award given to solutions which have the potential to change the future development of the company, which is one of the largest jet engine companies in the world. One of these solutions (terminology recognition in the aerospace industry) is covered by patent no. US8838439B2 and is a key component in a knowledge management system in use by 10,000 employees.

As for teaching, I was given a Faculty Award for Excellence in Teaching in 2012, voted by the students of the Faculty of Engineering as one of the best lecturers in their university course.

PUBLICATIONS

According to Google Scholar:



Source: Google Scholar

Books (Editor)

- Blomqvist E, Ławrynowicz A, Hose K, Ciravegna F & Paulheim H: The Semantic Web: ESWC 2017 Satellite Events (2017)
- Lora Aroyo, Paolo Traverso, Fabio Ciravegna, Philip Cimiano, Tom Heath, Eero Hyvönen Riichiro Mizoguchi, Marta Sabou, Elena Simperl, Eyal Oren (eds.): The Semantic Web: Research and Applications: ESWC 2009, LCNS, Springer, 2009 (J)

Journals, Special Issues (Editor)

- Fabio Ciravegna, Sanda Harabagiu (Guest Editors) Recent Advances in Natural Language Processing: Special Issue, IEEE Intelligent Systems and Their Applications, Vol 18, Issue 1, January, 2003 (P)

Chapters

1. Mazumdar S, wrigley S, ciravegna F, Pelloquin C, Chapman S, De Vendictis L, Grandoni D, Ferri M & Bolognini L (2017) Crowdsourcing to enhance insights from satellite observations In Bordogna G & Carrara P (Ed.), Mobile information Systems leveraging Volunteered Geographic Information for Earth Observation (pp. 35-52). Springer
2. Ciravegna F, Greengrass M, Hitchcock T, Chapman S, McLaughlin J & Bhagdev R (2017) Finding Needles in Haystacks: Data-mining in Distributed Historical Datasets, The Virtual Representation of the Past (pp. 65-79). Routledge
3. Elbedweihy K, Mazumdar S, Wrigley SN & Ciravegna F (2014) NL-Graphs: A Hybrid Approach toward Interactively Querying Semantic Data, The Semantic Web: Trends and Challenges (pp. 565-579). Springer International Publishing
4. Cano AE, Dadzie A-S & Ciravegna F (2013) Travel Mashups, Semantic Mashups (pp. 321-347). Springer Berlin Heidelberg
5. Gentile AL, Zhang Z & Ciravegna F (2011) Combining Diverse Knowledge Based Features for Semantic Relatedness Measures In Brena RF & Guzman-Arenas A (Ed.), Quantitative Semantics and Soft Computing Methods for the Web (pp. 96-117). IGI Global

6. Gentile AL, Lanfranchi V, Mazumdar S & Ciravegna F (2011) Extracting Semantic User Networks from Informal Communication Exchanges, *The Semantic Web – ISWC 2011* (pp. 209-224). Springer Berlin Heidelberg
7. Nixon L, Volz R, Ciravegna F & Studer R (2011) Future Trends, *Handbook of Semantic Web Technologies* (pp. 581-618). Springer Berlin Heidelberg
8. Zhang Z & Ciravegna F (2011) Named Entity Recognition for Ontology Population using Background Knowledge from Wikipedia IGI Global
9. Bhagdev R, Chakravarthy A, Chapman S, Ciravegna F & Lanfranchi V (2008) Creating and Using Organisational Semantic Webs in Large Networked Organisations, *Lecture Notes in Computer Science* (pp. 723-736). Springer Berlin Heidelberg
10. Denver D, Fisher J, Cowley P & Pattie C (1998) Preface (pp. 7-7). Informa UK Limited

Refereed Journal Papers

1. Gareth J Williams, Abdulaziz Al-Baraikhan, Frank E. Rademakers, Fabio Ciravegna, Frans N van de Vosse, Allan Lawrie, Alexander Rothman, Euan A Ashley, Martin R Wilkins, Patricia V Lawford, Stig W Omholt, Ulrik Wisløff, Rodney Hose, Timothy JA Chico, Julian P Gunn, Paul D Morris: Wearable Technology and the Cardiovascular System: The Future of Patient Assessment, *The Lancet Digital Health*, 2023
2. Emma Packer, Heloise Debelle, Harry G B Bailey, Fabio Ciravegna, Neil Ireson, Jordi Evers, Martijn Niessen, Jian Qing Shi, Alison J Yarnall, Lynn Rochester, Lisa Alcock and Silvia Del Din: Translating digital healthcare to enhance clinical management: a protocol for an observational study using a digital health technology system to monitor medication adherence and its effect on mobility in people with Parkinson's *BMJ Open* 2023;13:e073388. doi: 10.1136/bmjopen-2023-073388
3. Annamaria Carusi, Peter D. Winter, Iain Armstrong, Fabio Ciravegna, David Kiely, Allan Lawrie, Haiping Lu, Ian Sabroe, Andy Swift: Medical Artificial Intelligence (AI) is as much social as it is technological, *Nature Machine Intelligence* volume 5, pages 98–100 (2023), <https://doi.org/10.1038/s42256-022-00603-3>
4. Muhammad Ali Shiwani, Timothy Chico, Fabio Ciravegna, and Lyudmila Mihaylova: Continuous Monitoring of Health and Mobility Indicators in Patients with Cardiovascular Disease: A Review of Recent Technologies, *Special issue on Sensors and Digital Solutions for Human Health and Health Risk Monitoring, Sensors*, 23(12), 5752; <https://doi.org/10.3390/s23125752>, 2023
5. Héloïse Debelle, Emma Packer, Esther Beales, Harry G B Bailey, Riona Mc Ardle, Philip Brown, Heather Hunter, Fabio Ciravegna, Neil Ireson, Jordi Evers, Martijn Niessen, Jian Qing SHI, Alison J Yarnall, Lynn Rochester, Lisa Alcock and Silvia Del Din: Feasibility and usability of a digital health technology system to monitor mobility and assess medication adherence in mild-to-moderate Parkinson's disease, in *Frontiers Neurology, Sec. Movement Disorders Volume 14 - 2023* | <https://doi.org/10.3389/fneur.2023.1111260>, 2023
6. V. Marcianò, S. Bertuletti, T. Bonci, C. Mazzà, N. Ireson, F. Ciravegna, S. Del Din, E. Gazit, A. Cereatti, A deep learning model to discern indoor from outdoor environments based on data recorded by a tri-axial digital magnetic sensor, *Gait & Posture*, Volume 97, Supplement 2, 2022, Page 5, ISSN 0966-6362, <https://doi.org/10.1016/j.gaitpost.2022.09.015>.
7. Lanfranchi V, Jones N, Read J, Fegan C, Field R, E. Simpson, C. Revitt, P. Cudd & F. Ciravegna: User attitudes towards virtual home assessment technologies, *Journal of Medical Engineering & Technology*, 2022, DOI: 10.1080/03091902.2022.2089250
8. Yang, P.; Yang, C.; Lanfranchi, V. and Ciravegna, F.: Activity Graph based Convolutional Neural Network for Physical Activity Recognition using Acceleration and Gyroscope Data in *IEEE Transactions on Industrial Informatics*, 2022, doi: 10.1109/TII.2022.3142315
9. Mazzà, C , Alcock, L, Aminian, K et al. (54 more authors): Technical validation of real-world monitoring of gait : a multicentric observational study. *BMJ Open*, 11 (12), 2021. e050785. ISSN 2044-6055

10. Jones NL, Read J, Field B, Simpson, E, Revitt, C, Lanfranchi, V, and Ciravegna, F: Remote home visits: Exploring the concept and applications of remote home visits within health and social care settings. *British Journal of Occupational Therapy*. 2022;85(1):50-61. doi:10.1177/03080226211000265
11. Bai L, Ciravegna F, Bond R & Mulvenna M (2020) An indoor positioning system using Bluetooth Low Energy. *IEEE Access*.
12. Read J, Jones N, Fegan C, Cudd P, Simpson E, Mazumdar S & Ciravegna F (2020) Remote home visit: Exploring the feasibility, acceptability and potential benefits of using digital technology to undertake occupational therapy home assessments. *British Journal of Occupational Therapy*.
13. Naith Q & Ciravegna F (2020) Definitive guidelines toward effective mobile devices crowdtesting methodology. *International Journal of Crowd Science*, 4(2), 209-228.
14. Naith Q & Ciravegna F (2018) Mobile Devices Compatibility Testing Strategy via Crowdsourcing. *International Journal of Crowd Science*, 2(3), 225-246.
15. Zhang Z, Gao J & Ciravegna F (2018) SemRe-Rank: Improving Automatic Term Extraction by Incorporating Semantic Relatedness with Personalised PageRank. *ACM Transactions on Knowledge Discovery from Data*, 12(5).
16. Mazumdar S, Wrigley SN, Ireson N & Ciravegna F (2018) Harnessing Location-based Services for Effective Citizen Observatories.. *International Journal of Spatial Data Infrastructures Research*, 13, 101-108.
17. Mazumdar S, wrigley S & ciravegna F (2017) Citizen Science and Crowdsourcing for Earth Observations: An Analysis of Stakeholder Opinions on the Present and Future. *Remote Sensing*, 9(1), 87-87.
18. Zhang Z, Gentile AL, Blomqvist E, Augenstein I & Ciravegna F (2016) An unsupervised data-driven method to discover equivalent relations in large Linked Datasets. *Semantic Web*, 8(2), 197-223.
19. Mazumdar S, lanfranchi V, Ireson N, Wrigley S, Bagnasco C, Wehn U, McDonagh R, Ferri M, McCarthy S, Huwald H & Ciravegna F (2016) Citizen observatories for effective Earth observations: the WeSenseIt Approach. *environmental SCIENTIST*, 25(2), 56-61.
20. Augenstein I, Maynard D & Ciravegna F (2016) Distantly supervised Web relation extraction for knowledge base population. *Semantic Web*, 7(4), 335-349.
21. Mazumdar S, Ciravegna F, Ireson N, Read J, Simpson E & Cudd P (2016) Communicating with Citizens on the Ground: A Practical Study. *International Journal of Information Systems for Crisis Response and Management*, 8(2), 50-69.
22. Gentile AL, Zhang Z & Ciravegna F (2015) Early Steps Towards Web Scale Information Extraction with LODIE. *AI Magazine*, 36(1), 55-64.
23. Elbedweihy KM, Wrigley SN, Clough P & Ciravegna F (2015) An overview of semantic search evaluation initiatives. *Journal of Web Semantics*, 30, 82-105.
24. Mazumdar S, Petrelli D, Elbedweihy K, Lanfranchi V & Ciravegna F (2015) Affective graphs: The visual appeal of Linked Data. *Semantic Web*, 6(3), 277-312.
25. Epton T, Norman P, Dadzie A-S, Harris PR, Webb TL, Sheeran P, Julious SA, Ciravegna F, Brennan A, Meier PS , Naughton D et al (2014) A theory-based online health behaviour intervention for new university students (U@Uni): Results from a randomised controlled trial. *Acta Veterinaria Scandinavica*, 563-563.
26. Varga A, Ciravegna F, Basave AEC, Rowe M & He Y (2014) Linked knowledge sources for topic classification of microposts: A semantic graph-based approach. *Journal of Web Semantics*.
27. Cano AE, Mazumdar S & Ciravegna F (2014) Social Influence Analysis in Microblogging Platforms - A Topic-Sensitive based Approach. *Semantic Web – Interoperability, Usability, Applicability*, 5(5), 357-372.
28. Mazumdar S, Petrelli D & Ciravegna F (2014) Exploring user and system requirements of linked data visualization through a visual dashboard approach. *Semantic Web – Interoperability, Usability, Applicability*, 5(3), 203-220.

29. Ciravegna F, Mazumdar S & Petrelli D (2013) Exploring User and System Requirements of Linked Data Visualization through a Visual Dashboard Approach. *Journal of Semantic Web – Interoperability, Usability, Applicability*, 4(4).
30. Norman P, Epton T, Dadzie A-S, Sheeran P, Harris P, Webb T, Ciravegna F, Julious S, Brennan A, Meier P, Kruger J et al (2013) A theory-based online intervention to promote health behaviour in new university students: One-month follow-up data. *PSYCHOLOGY & HEALTH*, 28, 132-132.
31. Cano AE, Dadzie AS, Burel G & Ciravegna F (2013) Topica - Profiling locations through social streams. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 7774 LNCS, 290-305.
32. Cano AE, Varga A, Rowe M, Ciravegna F & He Y (2013) Harnessing linked knowledge sources for topic classification in social media. *HT 2013 - Proceedings of the 24th ACM Conference on Hypertext and Social Media*, 41-50.
33. Epton T, Norman P, Sheeran P, Harris PR, Webb TL, Ciravegna F, Brennan A, Meier P, Julious SA, Naughton D, Petroczi A et al (2013) A theory-based online health behavior intervention for new university students: study protocol.. *BMC Public Health*, 13, 107.
34. ZHANG ZIQI, GENTILE ANNALISA & CIRAVEGNA FABIO (2012) Recent advances in methods of lexical semantic relatedness - a survey. *Natural Language Engineering, FirstView*, 1-69.
35. Varga A, Cano AE & Ciravegna F (2012) Exploring the similarity between social knowledge sources and twitter for cross-domain topic classification. *CEUR Workshop Proceedings*, 895, 78-92.
36. Elbedweihy K, Wrigley SN, Ciravegna F, Reinhard D & Bernstein A (2012) Evaluating semantic search systems to identify future directions of research?. *CEUR Workshop Proceedings*, 843, 25-36.
37. Dadzie AS, Uren V & Ciravegna F (2011) Ontology-based knowledge capture and sharing in enterprise organisations, 200-225.
38. Cano AE, Varga A & Ciravegna F (2011) Volatile classification of point of interests based on social activity streams. *CEUR Workshop Proceedings*, 830.
39. Mazumdar S, Varga A, Lanfranchi V & Ciravegna F (2011) A knowledge dashboard for manufacturing industries. *CEUR Workshop Proceedings*, 748, 51-63.
40. Cano AE, Tucker S & Ciravegna F (2011) Capturing entity-based semantics emerging from personal awareness streams. *CEUR Workshop Proceedings*, 718, 33-44.
41. Petrelli D, Lanfranchi V, Ciravegna F, Begdev R & Chapman S (2011) Highly focused document retrieval in aerospace engineering: User interaction design and evaluation. *Aslib Proceedings: New Information Perspectives*, 63(2-3), 148-167.
42. Rowe M & Ciravegna F (2010) Disambiguating identity web references using Web 2.0 data and semantics. *J WEB SEMANT*, 8(2-3), 125-142.
43. Wrigley SN, Elbedweihy K, Reinhard D, Bernstein A & Ciravegna F (2010) Evaluating semantic search tools using the SEALS platform?. *CEUR Workshop Proceedings*, 666.
44. Wrigley SN, Reinhard D, Elbedweihy K, Bernstein A & Ciravegna F (2010) Methodology and campaign design for the evaluation of semantic search tools. *ACM International Conference Proceeding Series*.
45. Dadzie AS, Bhagdev R, Chakravarthy A, Chapman S, Iria J, Lanfranchi V, Magalhaes J, Petrelli D & Ciravegna F (2009) Applying semantic web technologies to knowledge sharing in aerospace engineering. *J INTELL MANUF*, 20(5), 611-623.
46. Carvalho RF, Chapman S & Ciravegna F (2009) Attributing semantics to personal photographs. *MULTIMED TOOLS APPL*, 42(1), 73-96.
47. Jeffrey S, Richards J, Ciravegna F, Waller S, Chapman S & Zhang Z (2009) Integrating archaeological literature into resource discovery interfaces using natural language processing and name authority services. *e-science 2009 - Proceedings of the 2009 5th IEEE International Conference on e-Science Workshops*, 184-187.
48. Lavelli A, Califf M, Ciravegna F, Freitag D, Giuliano C, Kushmerick N, Romano L & Ireson N (2008) Evaluation of machine learning-based information extraction algorithms: criticisms and recommendations. *LANG RESOUR EVAL*, 42(4), 361-393.

49. Rowe M & Ciravegna F (2008) Disambiguating identity through social circles and social data. CEUR Workshop Proceedings, 351, 80-93.
50. Rowe M & Ciravegna F (2008) Getting to me - Exporting semantic social network information from facebook. CEUR Workshop Proceedings, 405.
51. Ciravegna F & Petrelli D (2006) Annotating document content: a knowledge-management perspective. *The Indexer: The International Journal of Indexing*, 25(1), 23-27.
52. Uren V, Cimiano P, Iria J, Handschuh S, Vargas-Vera M, Motta E & Ciravegna F (2006) Semantic annotation for knowledge management: Requirements and a survey of the state of the art. *J WEB SEMANT*, 4(1), 14-28.
53. Ciravegna F & Staab S (2005) Large scale cross-media knowledge acquisition, sharing and reuse in X-media. *IET Seminar Digest*, 2005(11099), 407-408.
54. Lavelli A, Califf ME, Ciravegna F, Freitag D, Giuliano C, Kushmerick N & Romano L (2004) IE evaluation: Criticisms and recommendations. AAAI Workshop - Technical Report, WS-04-01, 7-14.
55. Ciravegna F & Lavelli A (2004) Learning Pinocchio: Adaptive information extraction for real world applications. *Natural Language Engineering*, 10(2), 145-165.
56. Ciravegna F & Harabagiu S (2003) Recent advances in natural language processing. *IEEE INTELL SYST*, 18(1), 12-13.
57. CIRAVEGNA F & LAVELLI A (2002) Full parsing approximation for information extraction via finite-state cascades. *Natural Language Engineering*, 8(2-3), 145-165.
58. Ciravegna F (2001) Challenges in information extraction from text for knowledge management. *IEEE INTELL SYST*, 16(6), 88-90.
59. CIRAVEGNA F (1995) UNDERSTANDING MESSAGES IN A DIAGNOSTIC DOMAIN. *INFORM PROCESS MANAG*, 31(5), 687-701.
60. Jones NL, Read J, Field B, Fegan C, Simpson E, Revitt C, Lanfranchi V & Ciranvenga F () Remote home visits: Exploring the concept and applications of remote home visits within health and social care settings. *British Journal of Occupational Therapy*, 030802262110002-030802262110002.

Refereed international Conference Papers

1. Barrows J, Radu V, Hill M, Ciravegna F: Active Learning with Data Distribution Shift Detection for Updating Localization Systems in International Conference on Indoor Positioning and Indoor Navigation (IPIN), 29 Nov 2021. 2021
2. Fabio Ciravegna; Jerry Gao; Neil Ireson; R. Copeland; Jow Walsh; Vita Lanfranchi: Active 10: Brisk Walking to Support Regular Physical Activity in Proceedings of 13th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth2019), Trento, May 2019, DOI: 10.1145/3329189.3329208
3. Naith Q, Ciravegna F: "Key Considerations In Building A Crowd-testing Platform For Software Developers", in Proceedings of the 4th International Conference on Crowd Science and Engineering (ICCSE 2019), 18-21 Oct, 2019, Jinan, China
4. Read J, Ciravegna F, Lanfranchi V, Jones N, Simpson E, Revitt C, Fegan C, Storey S, Wild A & Cudd P (2019) A digital system supporting effective remote multi-agency home visits. *Technology and Disability*, Vol. 31(Supplement 1) (pp S184-S184)
5. Han S, Gao JIE & Ciravegna F (2019) Neural language model based training data augmentation for weakly supervised early rumor detection. *ASONAM '19: Proceedings of the 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (pp 105-112). Vancouver, Canada, 27 August 2019 - 30 August 2019.
6. Ciravegna F, Gao J, Ireson N, Copeland R & Lanfranchi V (2019) Active 10: Brisk Walking to Support Regular Physical Activity. *Proceedings of 13th EAI International Conference on Pervasive Computing Technologies for Healthcare*, 20 May 2019 - 23 May 2019.
7. Simanjuntak H & Ciravegna F (2019) Semantic Understanding of Human Mobility Lifestyle to support Crisis Management. *ISCRAM 2019 Proceedings* (pp 421-434). Valencia, Spain, 19 May 2019 - 22 May 2019.

8. Han S & Ciravegna F (2019) Rumour Detection on Social Media for Crisis Management. Proceedings of the 16th International Conference on Information Systems for Crisis Response And Management (pp 660-673). Valencia, Spain, 19 May 2019 - 22 May 2019.
9. Han S, Gao J & Ciravegna F (2019) Data Augmentation for Rumor Detection Using Context-Sensitive Neural Language Model With Large-Scale Credibility Corpus. Learning from Limited Labeled Data: ICLR 2019 Workshop, 6 May 2019 - 9 May 2019.
10. Naith Q & Ciravegna F (2019) The Key Considerations In Building A Crowd-testing Platform For Software Developers. Proceedings of the 4th International Conference on Crowd Science and Engineering - ICCSE'19, 18 October 2019 - 21 October 2019.
11. Naith Q & Ciravegna F (2018) Hybrid Crowd-powered Approach for Compatibility Testing of Mobile Devices and Applications. ICCSE'18, 28 July 2018 - 31 July 2018.
12. Ciravegna F, Gao J, Ingram C, Ireson N, Lanfranchi V & Simanjuntak H (2018) Mapping mobility to support crisis management. Proceedings of the International ISCRAM Conference, Vol. 2018-May (pp 305-316)
13. Heller B, Mazumdar S & Ciravegna F (2018) Large scale, long-term, high granularity measurement of active travel using smartphones apps. Proceedings, Vol. 2(6), 26 March 2018 - 29 March 2018.
14. Ireson N & Ciravegna F (2017) Football Whispers: Transfer rumour detection. CEUR Workshop Proceedings, Vol. 1963
15. Bai L, Ireson N, Mazumdar S & Ciravegna F (2017) Lessons learned using wi-fi and Bluetooth as means to monitor public service usage. Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2017 ACM International Symposium on Wearable Computers
16. Mazumdar S, Ciravegna F, Ireson N, Read J, Simpson E & Cudd P (2017) Access Visits Using Video Communication. Studies in Health Technology and Informatics, Vol. 242 (pp 102-110)
17. Read J, Cudd P, Simpson E, Ciravenga F & Mazumdar S (2017) Digitising the acute service based home assessment. BRITISH JOURNAL OF OCCUPATIONAL THERAPY, Vol. 80 (pp 62-62)
18. Ciravegna F, Mazumdar S, Ireson N & Cudd P (2016) Seeing through the eyes of the citizens during emergencies. Proceedings of the International ISCRAM Conference
19. Zhang Z, Gao J & Ciravegna F (2016) JATE 2.0: Java Automatic Term Extraction with Apache Solr. Proceedings of the 10th International Conference on Language Resources and Evaluation, LREC 2016 (pp 2262-2269)
20. Elbedweihy K, Wrigley SN, Ciravegna F, Reinhard D & Bernstein A (2015) Evaluating Semantic Search Systems to Identify Future Directions of Research (pp 148-162)
21. Mazumdar S, Wrigley SN, Ireson N & Ciravegna F (2015) Geo-fence driven crowd-sourcing for Emergencies. ISCRAM 2015 Conference Proceedings - 12th International Conference on Information Systems for Crisis Response and Management, Vol. 2015-January
22. Gentile AL, Zhang Z & ciravegna F (2014) Self Training Wrapper Induction with Linked Data. TSD2014. B'rno, 8 September 2014 - 12 September 2014.
23. Osborne M, Moran S, McCreddie R, Von Lunen A, Sykora M, Cano E, Ireson N, Macdonald C, Ounis I, He Y , Jackson T et al (2014) Real-Time Detection, Tracking, and Monitoring of Automatically Discovered Events in Social Media. Proceedings of 52nd Annual Meeting of the Association for Computational Linguistics: System Demonstrations, June 2014 - June 2014.
24. Lanfranchi V, Wrigley SN, Ireson N, Wehn U & Ciravegna F (2014) Citizens' observatories for situation awareness in flooding. ISCRAM 2014 Conference Proceedings - 11th International Conference on Information Systems for Crisis Response and Management (pp 145-154)
25. Augenstein I, Maynard D & Ciravegna F (2014) Relation Extraction from the Web Using Distant Supervision (pp 26-41)
26. Lanfranchi V, Mazumdar S & Ciravegna F (2014) Visual design recommendations for situation awareness in social media. ISCRAM 2014 Conference Proceedings - 11th International Conference on Information Systems for Crisis Response and Management (pp 792-801)

27. Mazumdar S, Lanfranchi V, Ireson N & Ciravegna F (2014) Visual analysis of real-time social media for emergency response. CEUR Workshop Proceedings, Vol. 1329 (pp 67-78)
28. Zhang Z, Cohn T & Ciravegna F (2013) Topic-oriented Words as Features for Named Entity Recognition. Proceedings of the 14th International Conference on Intelligent Text Processing and Computational Linguistics (CICLING)
29. Blomqvist E, Zhang Z, Gentile AL, Augenstein I & Ciravegna F (2013) Statistical knowledge patterns for characterising linked data. CEUR Workshop Proceedings, Vol. 1188
30. Elbedweihy K, Wrigley SN, Ciravegna F & Zhang Z (2013) Using BabelNet in bridging the gap between natural language queries and linked data concepts. CEUR Workshop Proceedings, Vol. 1064
31. Augenstein I, Gentile AL, Norton B, Zhang Z & Ciravegna F (2013) Mapping keywords to Linked Data resources for automatic query expansion. CEUR Workshop Proceedings, Vol. 992 (pp 9-20)
32. Mazumdar S, Lanfranchi V, Cano AE & Ciravegna F (2013) Visualising topical sentiment in twitter streams. CEUR Workshop Proceedings, Vol. 1191
33. Augenstein I, Gentile AL, Norton B, Zhang Z & Ciravegna F (2013) Mapping keywords to linked data resources for automatic query expansion. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 7955 LNCS (pp 101-112)
34. Gentile AL, Zhang Z & Ciravegna F (2013) Web scale information extraction with LODIE. AAAI Fall Symposium - Technical Report, Vol. FS-13-04 (pp 24-27)
35. Lanfranchi V, Mazumdar S & Ciravegna F (2013) Evaluating the real usability of a C2 system - Short and controlled vs long and real. ISCRAM 2013 Conference Proceedings - 10th International Conference on Information Systems for Crisis Response and Management (pp 62-66)
36. Zhang Z, gentile AL, Ciravegna & Augenstein (2013) Unsupervised Wrapper Induction using Linked Data. K-cap 2013, 23 June 2013 - 26 June 2013.
37. Zhang Z, Webster P, Uren V, Varga A & Ciravegna F (2012) Automatically Extracting Procedural Knowledge from Instructional Texts using Natural Language Processing. International Conference on Language Resources and Evaluation (LREC 2012). Istanbul
38. Varga A, Preotiuc-Pietro D & Ciravegna F (2012) Unsupervised document zone identification using probabilistic graphical models. Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12). Istanbul, Turkey
39. Tucker S, Lanfranchi V, Ireson N, Sosa A, Burel G & Ciravegna F (2012) Straight to the Information I Need": Assessing Collational Interfaces for Emergency Response. 9th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2012)
40. Elbedweihy K, Wrigley S & Ciravegna F (2012) Evaluating Semantic Search Query Approaches with Expert and Casual Users. The Semantic Web – ISWC 2012 : Lecture Notes in Computer Science, Vol. 7650, Vol. 2 (pp 274-286). Boston (Ma), 11 November 2012 - 15 November 2012.
41. Gentile AL, Zhang & Ciravegna (2012) LODIE: Linked Open Data for Web-scale Information Extraction. Proceedings of the Workshop on Semantic Web and Information Extraction (SWAIE 2012). Galway, 8 October 2012 - 12 October 2012.
42. Elbedweihy K, Wrigley SN & Ciravegna F (2012) Evaluating Semantic Search Query Approaches with Expert and Casual Users (pp 274-286)
43. Cano AE, Dadzie A-S, Uren VS & Ciravegna F (2011) Sensing Presence (PreSense) Ontology: User Modelling in the Semantic Sensor Web.. ESWC Workshops, Vol. 7117 (pp 253-268)
44. Mazumdar S, Varga A, Lanfranchi V, Petrelli D & Ciravegna F (2011) A Knowledge Dashboard for Manufacturing Industries.. ESWC Workshops, Vol. 7117 (pp 112-124)
45. Gentile AL, Lanfranchi V, Mazumdar S & Ciravegna F (2011) Extracting semantic user networks from informal communication exchanges. The Semantic Web - ISWC 2011. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. LNCS 7031(PART 1) (pp 209-224). Bonn, Germany, 23 October 2011 - 27 October 2011.

46. Zhang Z, Gentile AL & Ciravegna F (2011) Harnessing different knowledge sources to measure semantic relatedness under a uniform model. EMNLP 2011 - Conference on Empirical Methods in Natural Language Processing, Proceedings of the Conference (pp 991-1002)
47. Mylonas P, Solachidis V, Geyer-Schulz A, Hoser B, Chapman S, Ciravegna F, Staab S, Smrz P, Kompatsiaris Y & Avrithis Y (2010) Efficient media exploitation towards Collective Intelligence. Studies in Classification, Data Analysis, and Knowledge Organization (pp 723-732)
48. Solachidis V, Mylonas P, Geyer-Schulz A, Hoser B, Chapman S, Ciravegna F, Lanfranchi V, Scherp A, Staab S, Contopoulos C, Gkika I et al (2010) Collective intelligence generation from user contributed content. Studies in Classification, Data Analysis, and Knowledge Organization (pp 765-774)
49. Zhang Z, Uren V & Ciravegna F (2010) A comprehensive solution to procedural knowledge acquisition using information extraction. KDIR 2010 - Proceedings of the International Conference on Knowledge Discovery and Information Retrieval (pp 432-437)
50. Zhang Z, Chapman S & Ciravegna F (2010) A Methodology towards Effective and Efficient Manual Document Annotation: Addressing Annotator Discrepancy and Annotation Quality.. EKAW, Vol. 6317 (pp 301-315)
51. Zhang Z, Iria J & Ciravegna F (2010) Improving Domain-specific Entity Recognition with Automatic Term Recognition and Feature Extraction.. LREC
52. Ireson N & Ciravegna F (2010) Toponym Resolution in Social Media.. International Semantic Web Conference (1), Vol. 6496 (pp 370-385)
53. Butters J & Ciravegna F (2010) Authoring Technical Documents for Effective Retrieval.. EKAW, Vol. 6317 (pp 287-300)
54. Mylonas P, Solachidis V, Geyer-Schulz A, Hoser B, Chapman S, Ciravegna F, Staab S, Smrz P, Kompatsiaris Y & Avrithis Y (2010) Efficient Media Exploitation Towards Collective Intelligence. ADVANCES IN DATA ANALYSIS, DATA HANDLING AND BUSINESS INTELLIGENCE (pp 723-732)
55. Solachidis V, Mylonas P, Geyer-Schulz A, Hoser B, Chapman S, Ciravegna F, Lanfranchi V, Scherp A, Staab S, Contopoulos C, Gkika I et al (2010) Collective Intelligence Generation from User Contributed Content. ADVANCES IN DATA ANALYSIS, DATA HANDLING AND BUSINESS INTELLIGENCE (pp 765-774)
56. Lin F, Butters J, Sandkuhl K & Ciravegna F (2010) Context-based Ontology Matching: Concept and Application Cases.. CIT (pp 1292-1298)
57. Cano AE, Rowe M & Ciravegna F (2009) Metasocial Wiki - Towards an interlinked knowledge in a decentralized social space.. SemWiki, Vol. 464
58. (2009) The Semantic Web: Research and Applications, 6th European Semantic Web Conference, ESWC 2009, Heraklion, Crete, Greece, May 31-June 4, 2009, Proceedings. ESWC, Vol. 5554
59. Iria J, Ciravegna F & Magalhães J (2009) Web news categorization using a cross-media document graph.. CIVR
60. Carvalho RF & Ciravegna F (2009) PixGeo: Geographically Grounding Touristic Personal Photographs. SEMANTIC MULTIMEDIA, PROCEEDINGS, Vol. 5887 (pp 149-160)
61. Petrelli D, Mazumdar S, Dadzie AS & Ciravegna F (2009) Multi Visualization and Dynamic Query for Effective Exploration of Semantic Data. SEMANTIC WEB - ISWC 2009, PROCEEDINGS, Vol. 5823 (pp 505-520)
62. Zhang Z, Iria J, Brewster C & Ciravegna F (2008) A Comparative Evaluation of Term Recognition Algorithms.. LREC
63. Greenwood MA, Iria J & Ciravegna F (2008) Saxon: an Extensible Multimedia Annotator.. LREC
64. Butters J & Ciravegna F (2008) Using Similarity Metrics For Terminology Recognition.. LREC
65. Magalhães J, Ciravegna F & Rüger SM (2008) Exploring multimedia in a keyword space.. ACM Multimedia (pp 101-110)

66. Bhagdev R, Chakravarthy A, Chapman S, Ciravegna F & Lanfranchi V (2008) Creating and Using Organisational Semantic Webs in Large Networked Organisations. SEMANTIC WEB - ISWC 2008, Vol. 5318 (pp 723-736)
67. Carvalho R, Chapman S & Ciravegna F (2008) Extracting semantic meaning from photographic annotations using a hybrid approach. METADATA MINING FOR IMAGE UNDERSTANDING (pp 48-57)
68. Bhagdev R, Chapman S, Ciravegna F, Lanfranchi V & Petrelli D (2008) Hybrid search: Effectively combining keywords and semantic searches. SEMANTIC WEB: RESEARCH AND APPLICATIONS, PROCEEDINGS, Vol. 5021 (pp 554-568)
69. Ciravegna F (2007) Challenges and methodologies for knowledge acquisition and sharing in large distributed environments. CEUR Workshop Proceedings, Vol. 253
70. Brewster C, Ciravegna F, Iria J, Guthrie L, Zhang Z & Wilks Y (2007) Dynamic iterative ontology learning. International Conference Recent Advances in Natural Language Processing, RANLP, Vol. 2007-January (pp 93-97)
71. (2007) Proceedings of the The First International Workshop on Semantic Web and Web 2.0 in Architectural, Product and Engineering Design co-located with ISWC 2007 + ASWC 2007, Busan, Korea, November 11th, 2007. SWW 2.0, Vol. 294
72. Bhagdev R, Butters J, Chakravarthy A, Chapman S, Dadzie A-S, Greenwood MA, Iria J & Ciravegna F (2007) Doris: Managing Document-based Knowledge in Large Organisations via Semantic Web Technologies .. Semantic Web Challenge, Vol. 295
73. Chakravarthy A, Ciravegna F & Lanfranchi V (2006) Cross-media document annotation and enrichment. CEUR Workshop Proceedings, Vol. 209
74. Iria J & Ciravegna F (2006) A methodology and tool for representing language resources for information extraction. Proceedings of the 5th International Conference on Language Resources and Evaluation, LREC 2006 (pp 103-106)
75. Iria J, Brewster C, Ciravegna F & Wilks Y (2006) An incremental tri-partite approach to ontology learning. Proceedings of the 5th International Conference on Language Resources and Evaluation, LREC 2006 (pp 197-202)
76. Chakravarthy A, Lanfranchi V & Ciravegna F (2006) Requirements for multimedia document enrichment.. WWW (pp 903-904)
77. Ciravegna F & Staab S (2006) X-Media: Large Scale Knowledge Acquisition, Sharing and Reuse across-Media.. SAMT (Posters and Demos), Vol. 233
78. Petrelli D, Lanfranchi V, Moore P, Ciravegna F & Cadas C (2006) Oh my, where is the end of the context?: dealing with information in a highly complex environment.. IliX (pp 37-41)
79. Ciravegna F (2006) Acquiring and Sharing Knowledge in Large Organizations: Issues, Requirements and Methodologies.. AIMS, Vol. 4183 (pp 2-2)
80. Petrelli D, Lanfranchi V, Moore P, Ciravegna F & Cadas C (2006) Oh my, where is the end of the context? Dealing with information in a highly complex environment. INFORMATION INTERACTION IN CONTEXT, PROCEEDINGS (pp 64-72)
81. Ireson N, Ciravegna F, Califf ME, Freitag D, Kushmerick N & Lavelli A (2005) Evaluating machine learning for information extraction.. ICML, Vol. 119 (pp 345-352)
82. Lanfranchi V, Ciravegna F, Moore P & Petrelli D (2005) Document editing and browsing in AKTiveDoc.. ACM Symposium on Document Engineering (pp 237-238)
83. Petrelli D, Lanfranchi V & Ciravegna F (2005) Working out a common task: Design and evaluation of user-intelligent system collaboration. HUMAN-COMPUTER INTERACTION - INTERACT 2005, PROCEEDINGS, Vol. 3585 (pp 309-322)
84. Lanfranchi V, Ciravegna F & Petrelli D (2005) Semantic Web-based document: Editing and browsing in AktiveDoc. SEMANTIC WEB: RESEARCH AND APPLICATIONS, PROCEEDINGS, Vol. 3532 (pp 623-632)
85. Norton B, Chapman S & Ciravegna F (2005) Orchestration of Semantic Web services for large-scale document annotation. SEMANTIC WEB: RESEARCH AND APPLICATIONS, PROCEEDINGS, Vol. 3532 (pp 649-663)
86. Chapman S, Dingli A & Ciravegna F (2004) Armadillo: harvesting information for the semantic web.. SIGIR (pp 598-598)

87. Ciravegna F, Chapman S, Dingli A & Wilks Y (2004) Learning to harvest information for the semantic web. SEMANTIC WEB: RESEARCH AND APPLICATIONS, Vol. 3053 (pp 312-326)
88. Glaser H, Alani H, Carr L, Chapman S, Ciravegna F, Dingli A, Gibbins N, Harris S, Schraefel MC & Shadbolt N (2004) CS AKTiveSpace: Building a semantic web application. SEMANTIC WEB: RESEARCH AND APPLICATIONS, Vol. 3053 (pp 417-432)
89. Dingli A, Ciravegna F, Guthrie D & Wilks Y (2003) Mining web sites using adaptive information extraction. Proceedings of the tenth conference on European chapter of the Association for Computational Linguistics - EACL '03, 12 April 2003 - 17 April 2003.
90. Ciravegna F, Dingli A, Guthrie D & Wilks Y (2003) Integrating Information to Bootstrap Information Extraction from Web Sites.. IWeb (pp 9-14)
91. Dingli A, Ciravegna F, Guthrie D & Wilks Y (2003) Mining Web Sites Using Unsupervised Adaptive Information Extraction.. EACL (pp 75-78)
92. Ciravegna F, Dingli A, Wilks Y & Petrelli D (2003) Using adaptive information extraction for effective human-centred document annotation. TEXT MINING: THEORETICAL ASPECTS AND APPLICATIONS (pp 153-163)
93. Ciravegna F, Dingli A, Wilks Y & Petrelli D (2002) Adaptive information extraction for document annotation in amilcare.. SIGIR (pp 451-451)
94. Ciravegna F, Dingli A, Wilks Y & Petrelli D (2002) Amilcare: adaptive information extraction for document annotation.. SIGIR (pp 367-368)
95. Ciravegna F, Dingli A, Petrelli D & Wilks Y (2002) User-system cooperation in document annotation based on information extraction. KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT, PROCEEDINGS, Vol. 2473 (pp 122-137)
96. Handschuh S, Staab S & Ciravegna F (2002) S-CREAM - Semi-automatic CREation of metadata. KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT, PROCEEDINGS, Vol. 2473 (pp 358-372)
97. Vargas-Vera M, Motta E, Domingue J, Lanzoni M, Stutt A & Ciravegna F (2002) MnM: Ontology driven semi-automatic and automatic support for semantic markup. KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT, PROCEEDINGS, Vol. 2473 (pp 379-391)
98. Brewster C, Ciravegna F & Wilks Y (2002) User-centred ontology learning for knowledge management. NATURAL LANGUAGE PROCESSING AND INFORMATION SYSTEMS, Vol. 2553 (pp 203-207)
99. Bontcheva K, Brewster C, Ciravegna F, Cunningham H, Guthrie L, Gaizauskas R & Wilks Y (2001) Using HLT for acquiring, retrieving and publishing knowledge in AKT. Proceedings of the workshop on Human Language Technology and Knowledge Management -, 6 July 2001 - 7 July 2001.
100. Ciravegna F (2001) Adaptive Information Extraction from Text by Rule Induction and Generalisation.. IJCAI (pp 1251-1256)
101. Brewster C, Ciravegna F & Wilks Y (2001) Knowledge Acquisition for Knowledge Management.. Workshop on Ontology Learning, Vol. 38
102. Ciravegna F, Lavelli A & Satta G (2000) Bringing information extraction out of the labs: the Pinocchio environment. ECAI 2000: 14TH EUROPEAN CONFERENCE ON ARTIFICIAL INTELLIGENCE, PROCEEDINGS, Vol. 54 (pp 416-420)
103. Ciravegna F, Gilardoni L, Lavelli A, Mazza S, Black WJ, Ferraro M, Mana N, Matiassek J & Rinaldi F (2000) Flexible text classification for financial applications: The FACILE system. ECAI 2000: 14TH EUROPEAN CONFERENCE ON ARTIFICIAL INTELLIGENCE, PROCEEDINGS, Vol. 54 (pp 696-700)
104. Ciravegna F & Lavelli A (1999) Full text parsing using cascades of rules: an information extraction perspective. NINTH CONFERENCE OF THE EUROPEAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS, PROCEEDINGS (pp 102-109)
105. Ciravegna F, Lavelli A, Mana N, Matiassek J, Gilardoni L, Mazza S, Ferraro M, Black WJ, Rinaldi F & Mowatt D (1999) FACILE: Classifying texts integrating pattern matching and information extraction. IJCAI-99: PROCEEDINGS OF THE SIXTEENTH INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, VOLS 1 & 2 (pp 890-895)

106. Ciravegna F & Cancedda N (1995) Integrating shallow and linguistic techniques for information extraction from text. *TOPICS IN ARTIFICIAL INTELLIGENCE*, Vol. 992 (pp 127-138)
107. Ciravegna F & Giorda E (1993) Coping with Modifiers in a Restricted Domain.. *AI*IA*, Vol. 728 (pp 266-271)
108. Ciravegna F, Campia P & Colognese A (1992) Knowledge Extraction From Texts By Sintesi.. *COLING* (pp 1244-1248)
109. Ciravegna F, Tarditi R, Campia P & Colognese A (1991) Syntax and semantics in a text interpretation system. *RIAO* (pp 684-695)

Some Refereed Workshop Papers

1. Bai, L., Ireson, N., Mazumdar, S., & Ciravegna, F. (n.d.). Lessons Learned Using Wi-Fi and Bluetooth as Means to Monitor Public Service Usage. In *Proceedings of the PURBA Workshop at UBICOMP*.
2. Mazumdar, S., Lanfranchi, V., Ireson, N., & Ciravegna, F. (2014). Visual Analysis of Real-time Social Media for Emergency Response. In *Proceedings of the 2nd Workshop on Social Media and Linked Data for Emergency Response (SMILE 2014), Extended Semantic Web Conference 2014. Heraklion, Crete*.
3. Elbedweihy, K., Wrigley, S. N., & Ciravegna, F. (2012, May). Improving semantic search using query logs analysis. In *Interacting with Linked Data (ILD 2012) Workshop. Located at the 9th Extended Semantic Web Conference (ESWC2012)*. Heraklion, Greece.
4. Elbedweihy, K., Mazumdar, S., Cano, A. E., Wrigley, S. N., & Ciravegna, F. (2011, October 23). Identifying information needs by modelling collective query patterns. In *Consuming Linked Data Workshop (COLD 2011). Located at the 10th International Semantic Web Conference (ISWC2011)* Vol. 782. Bonn, Germany: CEUR-WS.org.
5. Elbedweihy, K., Wrigley, S. N., Ciravegna, F., Reinhard, D., & Bernstein, A. (2012). Evaluating semantic search systems to identify future directions of research?. *CEUR Workshop Proceedings, 843*, 25-36.
6. Mazumdar, S., Varga, A., Lanfranchi, V., & Ciravegna, F. (2011). A knowledge dashboard for manufacturing industries. *CEUR Workshop Proceedings, 748*, 51-63.
7. Wrigley, S. N., Elbedweihy, K., Reinhard, D., Bernstein, A., & Ciravegna, F. (2010). Evaluating semantic search tools using the SEALS platform?. *CEUR Workshop Proceedings, 666*.
8. Jeffrey, S., Richards, J., Ciravegna, F., Waller, S., Chapman, S., & Zhang, Z. (2009). Integrating archaeological literature into resource discovery interfaces using natural language processing and name authority services. *e-science 2009 - Proceedings of the 2009 5th IEEE International Conference on e-Science Workshops*, 184-187. doi:[10.1109/ESCIW.2009.5407967](https://doi.org/10.1109/ESCIW.2009.5407967)
9. Rowe, M., & Ciravegna, F. (2008). Getting to me - Exporting semantic social network information from facebook. *CEUR Workshop Proceedings, 405*.
10. Anna Lisa Gentile, Ziqi Zhang, Fabio Ciravegna. LODIE: Linked Open Data for Web-scale Information Extraction. SWAIE 2012: Semantic Web and Information Extraction, Galway, 08 Oct 2012 - 12 Oct 2012. Editors: Maynard D, van Erp M, Davis B. Proceedings of the Workshop on Semantic Web and Information Extraction (SWAIE 2012). CEUR-WS.org. 2012. http://ceur-ws.org/Vol-925/paper_2.pdf
11. Isabelle Augenstein, Anna Lisa Gentile, Barry Norton, Ziqi Zhang and Fabio Ciravegna: Mapping Keywords to Linked Data Resources for Automatic Query Expansion, in Proceedings of Second International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data, workshop at 10th Extended Semantic Web Conference (ESWC), Montpellier, May 2013
12. K. Elbedweihy, S.N. Wrigley and F. Ciravegna (2012). Improving semantic search using query logs analysis. *Interacting with Linked Data (ILD 2012) Workshop*.
13. Elbedweihy K, Wrigley SN, Ciravegna F, Reinhard D, Bernstein A: Evaluating semantic search systems to identify future directions of research? in *CEUR Workshop Proceedings*,

01/01/2012,

14. Andrea Varga, Amparo E. Cano and Fabio Ciravegna: "Exploring the Similarity between Social Knowledge Sources and Twitter for Cross-domain Topic Classification, in Proceedings of the First international workshop on knowledge extractions and consolidation co-located with the 11th International Semantic Web Conference (ISWC2012), Boston, 11/12 November 2012. This paper got the best paper award
15. Amparo E. Cano, Andrea Varga and Fabio Ciravegna. Volatile Classification of Point of Interests based on Social Activity Streams, in Proceedings of the 4th workshop on Social Data on the Web (SDoW2011), co-located with the 10th International Semantic Web Conference (ISWC2011), in Bonn (Germany), October 23rd, 2011.
16. Khadija Elbedweihy, Suvodeep Mazumdar, Amparo E. Cano, Stuart N. Wrigley and Fabio Ciravegna: Identifying Information Needs by Modelling Collective Query Patterns, in proceedings of the Second International Workshop on Consuming Linked Data (COLD2011) co-located with the 10th International Semantic Web Conference (ISWC2011), in Bonn (Germany), October 23rd, 2011.
17. Amparo E. Cano, Simon Tucker and Fabio Ciravegna. Follow me: Capturing Entity-Based Semantics Emerging from Personal Awareness Streams. In Proceedings of the Workshop on Making Sense of Microposts (#MSM2011), co-located with The 8th Extended Semantic Web Conference, Heraklion, Greece, June 2011.
18. Matthew Rowe, and Fabio Ciravegna Getting to Me - Exporting Semantic Social Network Information from Facebook. Proceedings of Workshop on Social Data on the Web, ISWC 2008, Karlsruhe, Germany, October 2008.
19. Matthew Rowe, Fabio Ciravegna: Disambiguating Identity through Social Circles and Social Data. Proceedings of Collective Intelligence Workshop, ESWC 2008, Tenerife, Spain, June 2008.
20. Rodrigo Carvalho, Sam Chapman, and Fabio Ciravegna Extracting semantic meaning from photographic annotations using a hybrid approach International Workshop on "Metadata Mining for Image Understanding" (MMIU), the 3rd International Conference on Computer Vision Theory and Applications (VISAPP), Funchal, Madeira, Portugal, January, 2008,
21. Sam Chapman and Fabio Ciravegna: Focused data mining for decision support in emergency response scenarios, in Proceedings of Workshop at 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference, Busan, Korea Dates: November 11 - 15 , 2007
22. Ajay Chakravarthy, Vita Lanfranchi and Fabio Ciravegna: Cross-media Document Annotation and Enrichment, SAAW2006 - 1st Semantic Authoring and Annotation Workshop, The 5th International Semantic Web Conference (ISWC2006), Athens, GA, USA, Monday, November 6th 2006
23. J. Iria, N. Ireson and F. Ciravegna. An Experimental Study on Boundary Classification Algorithms for Information Extraction using SVM. In Proceeding of the EACL 2006 Workshop on Adaptive Text Extraction and Mining (ATEM 2006) 11th Conference of the European Chapter of the Association for Computational Linguistics, April 2006.
24. Fabio Ciravegna and Sam Chapman Mining the Semantic Web: Requirements for machine learning, Dagstuhl workshop on Learning for the Semantic Web, 13-18 February 2005, Dagstuhl, Germany.
25. Neil Ireson, Fabio Ciravegna: Pascal Challenge: The evaluation of machine learning for information extraction Dagstuhl workshop on Learning for the Semantic Web , 13-18 February 2005, Dagstuhl, Germany.
26. Sam Chapman, Barry Norton, Fabio Ciravegna: Armadillo: Integrating Knowledge for the Semantic Web, Dagstuhl workshop on Learning for the Semantic Web , 13-18 February 2005, Dagstuhl, Germany.
27. Christopher Brewster, Jose` Iria, Fabio Ciravegna, Yorick Wilks: The Ontology: Chimaera or Pegasus Dagstuhl workshop on Learning for the Semantic Web, 13-18 February 2005, Dagstuhl, Germany.

28. José Iria, Fabio Ciravegna, Philipp Cimiano, Alberto Lavelli, Enrico Motta, Luca Gilardoni and Eddie Mönch Integrating Information Extraction, Ontology Learning and Semantic Browsing into Organizational Knowledge Processes Workshop on the application of Language and Semantic Technologies to support Knowledge Management Processes at the 14th International Conference on Knowledge Engineering and Knowledge Management EKAW 2004, 5-8th October 2004 - Whittlebury Hall, Northamptonshire, UK
29. Alexiei Dingli, Fabio Ciravegna, and Yorick Wilks Automatic Semantic Annotation using Unsupervised Information Extraction and Integration in Proceedings of the K-CAP 2003 Workshop on Knowledge Markup and Semantic Annotation,,Sanibel, Florida, October 26, 2003
30. Philipp Cimiano, Fabio Ciravegna, John Domingue, Siegfried Handschuh, Alberto Lavelli, Steffen Staab, Mark Stevenson Requirements for Information Extraction for Knowledge Management in Proceedings of the K-CAP 2003 Workshop on Knowledge Markup and Semantic Annotation, Sanibel, Florida, October 26, 2003
31. Fabio Ciravegna, Alexiei Dingli, Jose' Iria, and Yorick Wilks Multi-strategy Definition of Annotation Services in Melita in Proceedings of the Workshop on Human Language Technology for the Semantic Web and Web Services, held at the 2nd International Semantic Web Conference, Sanibel Island, Florida, October 2003.
32. Christopher Brewster, Fabio Ciravegna and Yorick Wilks, Background and Foreground Knowledge in Dynamic Ontology Construction, in Proceedings of the Semantic Web Workshop, SIGIR August 2003
33. Fabio Ciravegna, Alexiei Dingli, David Guthrie and Yorick Wilks: Integrating Information to Bootstrap Information Extraction from Web Sites IJCAI 2003 Workshop on Information Integration on the Web, workshop in conjunction with the 18th International Joint Conference on Artificial Intelligence (IJCAI 2003), Acapulco, Mexico, August, 9-15, 2003
34. Fabio Ciravegna, Alexiei Dingli, Yorick Wilks and Daniela Petrelli Timely and Non-Intrusive Active Document Annotation via Adaptive Information Extraction in proceedings of the ECAI workshop on Semantic Authoring, Annotation & Knowledge Markup (SAAKM02), held in conjunction with the 15th European Conference on Artificial Intelligence, Lyon, France, July 22-26, 2002
35. Fabio Ciravegna and Alberto Lavelli: LearningPinocchio: Adaptive Information Extraction for Real World Applications Proceedings of the 2nd Workshop on RObust Methods in Analysis of Natural language Data (ROMAND 2002), Frascati, Italy - July 17, 2002
36. K. Bontcheva, C. Brewster, F. Ciravegna, H. Cunningham, L. Guthrie, R. Gaizauskas and Y. Wilks Using HLT for Acquiring, Retrieving and Publishing Knowledge in AKT: Position Paper in 2001 EACL/ACL Workshop on Human Language Technology and Knowledge Management (HLT & KM), workshop at the 39th Annual Meeting of the Association for Computational Linguistics , July 6-11, 2001, Toulouse, France
37. Fabio Ciravegna: (LP)², an Adaptive Algorithm for Information Extraction from Web-related Texts in Proceedings of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining, held in conjunction with the 17th International Conference on Artificial Intelligence (IJCAI-01), Seattle, August, 2001
38. Fabio Ciravegna and Daniela Petrelli User Involvement in Adaptive Information Extraction: Position Paper in Proceedings of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining, held in conjunction with the 17th International Conference on Artificial Intelligence (IJCAI-01), Seattle, August, 2001
39. Christopher Brewster, Fabio Ciravegna and Yorick Wilks: Knowledge Acquisition for Knowledge Management: Position Paper in Proceeding of the IJCAI-2001 Workshop on Ontology Learning to be held in conjunction with the 17th International Conference on Artificial Intelligence (IJCAI-01), Seattle, August, 2001

40. Fabio Ciravegna: Learning to Tag for Information Extraction from Text in Fabio Ciravegna, Roberto Basili, Robert Gaizauskas (eds.) ECAI Workshop on Machine Learning for Information Extraction , workshop in conjunction with ECAI2000, Berlin, August 2000.
41. Fabio Ciravegna Alberto Lavelli Controlling Bottom-Up Chart Parsers through Text Chunking in Proceedings of the 5th International Workshop on Parsing Technologies (IWPT97), Boston, September, 17-20, 1997
42. Fabio Ciravegna Alberto Lavelli, Daniela Petrelli, Fabio Pianesi: Participatory Design for Linguistic Engineering: the Case of the Geppetto Development Environment In Proceedings of the ACL/EACL Workshop on Computational Environments for Grammar Development and Linguistic Engineering , Madrid, Spain, July 12, 1997.
43. Fabio Ciravegna and Alberto Lavelli On Parsing Control for Efficient Text Analysis . in Proceedings of the Fourth International Workshop on Parsing Technologies (IWPT95), Prague, Czech Republic, September 1995.
44. Magnini, Carlo Strapparava, Fabio Ciravegna, Emanuele Pianta: Multilingual Lexical Knowledge Bases: Applied WordNet Prospects , International Workshop on The Future of the Dictionary , Grenoble, October 1994

TUTORIALS and SUMMER SCHOOLS

I have given several tutorials and lectures in many international venues plus a number of lectures in single universities:

- 2003-2013: I was co-founder and tutor at the 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th and 10th International Semantic Web Summer School (around 60 students a year from 3 continents, 1 week of teaching); lectures during the years covered *Information Extraction from Text*, *Document Annotation*, *Semantic Web Based Knowledge Management and Social Media Analysis*. I was the only tutor to be invited every year since its creation.
- Tutorial on Using Social Media in Emergency Response, at the 14th International Conference on Information Systems for Crisis Response and Management, Albi, Toulouse, 2017
- Tutorial on Mining Complex Entities from Heterogeneous Information Networks, at the 2011 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), Athens, Greece, September 5-9, 2011. With Andrea Varga.
- Tutorial on Semantic evaluation at large scale, at the 8th Extended Semantic Web Conference ESWC 2011,
- Invited Tutorial on *Introduction to the Semantic Web: Knowledge Sharing* at the 9th International Semantic Web Conference, Shanghai, China. Date: November 2010
- Invited tutor at the International School on Multimedia Semantics (Koblenz, Germany, July 2009). Lecture on *Information Extraction from Documents*.
- Invited Tutorial on *Introduction to the Semantic Web: Document Annotation* at the 7th International Semantic Web Conference, Karlsruhe, Germany. Dates: October 26-30, 2008
- Invited Tutorial on *Semantic Web Technologies in Large Distributed Enterprises* at the Norwegian Semantic Days 2008, Stavanger, Norway, April 2008.
- Invited Tutorial on *Introduction to the Semantic Web: Machine Learning and Human Language Technology* at the 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference, Busan, Korea Dates: November 11 - 15, 2007.
- Tutorial on *Semantic Web Technologies for Knowledge Management in Large Distributed Organisations* at the 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference, Busan, Korea Dates: November 11 - 15 , 2007
- Tutorial on *Semantic Web Technologies for Knowledge Management in Large Distributed Organisations* at the 4th European Semantic Web Conference, 3-7th, June 2007, Innsbruck, Austria
- Tutorial on *Adaptive Text Mining* at the joint 14th European Conference on Machine Learning (ECML) and the 7th European Conference on Principles and Practice of Knowledge Discovery

in Databases (PKDD), Cavtat-Dubrovnik (Croatia), September 2003, with Nicholas Kushmerick, University College Dublin

- Tutorial on *Adaptive Information Extraction from Text* at the 15th European Conference on Artificial Intelligence, Lyon, July 2002, with Nicholas Kushmerick, University College Dublin.
- Tutorial on *Information Extraction from Text* at the Italian Conference on Artificial Intelligence, Bologna, September 1999, with Roberto Basili, Univ. of Tor Vergata.
- The Swedish government funded the 3-year Stint project (2009-2012) to collaborate with my group. The collaboration involved Sheffield and the University of Jonkoeping and it includes my teaching their PhD students for a week every year.

Firma

Torino, 16.06.2023

Fabio Ciravegna

