Sources of Scientific Literature for Multiagent Systems Multiagent Systems LS

Sistemi Multiagente LS

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Andrea Omicini (Università di Bologna)

Sources of MAS Literature

Scientific Literature

- Scientific Literature: Generality
- Scientific Literature: Details



Agent-Oriented Literature

- General Sources of Informatics Literature
- Agent-Oriented Journals, Series & Books
- Agent-Oriented Conferences & Workshops



Outline

Scientific Literature

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Scientific literature is the result of a complex process

- Involving thousands of skilled people world-wide
- Growing constantly in size and width in the last decades
- Where individual, social, organisational, economical, political issues are often as important as scientific ones
- Articulated essentially around four stages
 - production
 - publication
 - dissemination
 - access



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- In general, only when all four stages are well-developed, a scientific result becomes shared and successful



Scientific literature is the result of the activity of many actors

- Many actors are involved in the process
 - researchers
 - universities & research centres
 - funding bodies
 - publishers

They participate in the process with different aims and roles



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Scientific literature is essentially produced by researchers

Researchers

- working in the academia, industry, research institutions
- working either individually or in team, in isolation or in research labs
- are mainly involved in the production stage

Production of scientific results means nothing alone

• (Expert) researchers are typically involved in the other three stages, too

- promoting, participating to, and coordinating scientific meetings
- promoting, participating to, and coordinating scientific projects
- promoting, participating to, and coordinating publication of books and journals
- promoting dissemination of published results
- possibly, making access to published results as wide as possible
- A huge number of non-scientific, non-technical issues to be faced & solved
 - like, say, fund raising



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Universities & research centres

- Some institutional actors have the promotion of scientific research among their main goals
 - universities
 - public & private research institutes
 - industrial research centres
- Promoting research is not their only aim, however
 - universities have to produce and transmit knowledge
 - research institutes have to make their own results visible, and possibly to transfer them to industry
 - industrial research centres have to produce competitive advantage as well as long-term profits



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Public & private funding bodies

- Investing in research
- Funding theoretical & applied research
 - either occasionally, or systematically
 - either as an exceptional measure, or as part of the mission of the funding body

• Typical examples

- public: European Community, Italian Ministry of Research, Region Emilia Romagna, . . .
- private: mostly, big industrial groups like FIAT, British Telecom, Siemens, IBM, ...

Modes for funding

- Often in the form of projects, involving individuals & groups from either the same body or different bodies
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- An idea is not a scientific result per se
- A scientific result is something that
 - is presented & structured in a way that can be understood by non-authors
 - has a form that can be shared and accessed by members of the scientific comunity
 - gives readers enough information upon its results, so that they could in principle be reproduced and possibly *confuted* by any (expert, knowledgeable) reader [Popper, 2002

Articles & Books

- The primary sharable form for scientific results are articles (also called papers), collected and published
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- Review is conducted by experts in the field, and concludes in a final evaluation
- In case the article is considered worth of publication, it might anyway be revised according to the reviewer's indications, and finally accepted for publication
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- Once ready, proceedings, journal issues, collections and monographies are ready as scientific products, but not yet as typographic ones
- Often, publishers intervene on the form (language, formatting, illustrations, ...) of the scientific material before it is published
 - with the consent of authors / editors

The role of publishers

- Publishers have a twofold goal
 - primarily, earn money—at least do not loose money
 - secondarily, earn reputation through high quality publications.
- Publishers dictate the pace for publication of volumes / issues, the total number of pages
- Publishers handle organisational issues, and introduce / govern social & economical factors in the scientific process
- Publishers are also in charge of dissemination
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Scientific literature is published (and disseminated) by publishers

- Once ready, proceedings, journal issues, collections and monographies are ready as scientific products, but not yet as typographic ones
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 - interpersonal communication is an essential even though non-technical key-point
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aliCE Producing & publishing scientific literature is not enough

- In the long run, disseminating results and providing easy & organised access to them is at least as relevant
- The ongoing efforts in the **aliCE** portal at http://alice.unibo.it/ are exactly aimed at that
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- Scientific Literature: Generality
- Scientific Literature: Details

2 Agent-Oriented Literature

- General Sources of Informatics Literature
- Agent-Oriented Journals, Series & Books
- Agent-Oriented Conferences & Workshops



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Digital Libraries from Main International Associations

ACM DL http://portal.acm.org/dl.cfm

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IEEE DL urlhttp://www.computer.org/portal/site/csdl/

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 - WIAS Web Intelligence and Agent Systems http://www.iospress.nl/loadtop/load.php?isbn=15701263
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 - LNAI Its sub-series Lecture Notes in Artificial Intelligence collects most of the MAS-related LNCS volumes
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SELMAS Workshop "Software Engineering for Large-scale Multi-Agent Systems"

CIA Workshop "Cooperative Information Agents"

AT2AI Workshop "From Agent Theory to Agent Implementation"

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Scientific Literature

- Scientific Literature: Generality
- Scientific Literature: Details



Agent-Oriented Literature

- General Sources of Informatics Literature
- Agent-Oriented Journals, Series & Books
- Agent-Oriented Conferences & Workshops



Conclusions

Bibliography I



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Sources of MAS Literature

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Image: A matrix and a matrix

Sources of Scientific Literature for Multiagent Systems Multiagent Systems LS Sistemi Multiagente LS

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Ingegneria Due Alma Mater Studiorum—Università di Bologna a Cesena

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