

Agents and Databases: Friends or Foes?

Submitted by [rene](#) [1] on Fri, 2010-08-20 08:18

- [AI](#) [2]
- [Fuzzy Sets & Systems](#) [3]
- [Software Engineering](#) [4]

Title	Agents and Databases: Friends or Foes?
Publication Type	Conference Paper
Year of Publication	2005
Refereed Designation	Non-Refereed
Authors	Lockemann, P. C. [5], and R. Witte [6]
Conference Name	Ninth International Database Engineering and Applications Symposium (IDEAS 2005)
Pagination	137–147
Date Published	July 25–27
Conference Location	Montréal, Québec, Canada
ISBN Number	0-7695-2404-4
Abstract	<p>On first glance agent technology seems more like a hostile intruder into the database world. On the other hand, the two could easily complement each other, since agents carry out information processes whereas databases supply information to processes. Nonetheless, to view agent technology from a database perspective seems to question some of the basic paradigms of database technology, particularly the premise of semantic consistency of a database. The paper argues that the ensuing uncertainty in distributed databases can be modelled by beliefs, and develops the basic concepts for adjusting peer-to-peer databases to the individual beliefs in single nodes and collective beliefs in the entire distributed database.</p>
Notes	Invited paper.
DOI	10.1109/IDEAS.2005.8 [7]
Copyright	<p>Copyright © 2005 IEEE. Personal use of this material is permitted. However, permission to reprint/republish this material for advertising or promotional purposes or for creating new collective works for resale or redistribution to servers or lists, or to reuse any copyrighted component of this work in other works must be obtained from the IEEE. This material is presented to ensure timely dissemination of scholarly and technical work. Copyright and all rights therein are retained by authors or by other copyright holders. All persons copying this information are expected to adhere to the terms and constraints invoked by each author's copyright. In most cases, these works may not be reposted without the explicit permission of the copyright holder.</p> <p>DOI: 10.1109/IDEAS.2005.8</p>
Attachment	Size
lockemann_witte_ideas2005.pdf [8]	119.25 KB



Except where otherwise noted, all original content on this site is copyright by its author and licensed under a [Creative Commons Attribution-Share Alike 2.5 Canada License](https://creativecommons.org/licenses/by-sa/2.5/ca/).

Source URL (retrieved on 2025-12-15 08:47): <https://www.semanticsoftware.info/biblio/agents-and-databases-friends-or-foes>

Links:

- [1] <https://www.semanticsoftware.info/users/rene>
- [2] <https://www.semanticsoftware.info/category/topic/ai>
- [3] <https://www.semanticsoftware.info/category/topic/fuzzy-sets-systems>
- [4] <https://www.semanticsoftware.info/category/topic/software-engineering>
- [5] <https://www.semanticsoftware.info/biblio/author/31>
- [6] <https://www.semanticsoftware.info/biblio/author/1>
- [7] <http://dx.doi.org/10.1109/IDEAS.2005.8>
- [8] https://www.semanticsoftware.info/system/files/lockemann_witte_ideas2005.pdf