

A Bibliography of Publications of Alessandro Saffiotti

Alessandro Saffiotti
IRIDIA, Universite Libre de Bruxelles
50 av. F. Roosevelt, CP 194/6
Brussels
Belgium 1050

Tel: +32 2 650 2729
FAX: +32 2 650 2715

E-mail: asaffio@ulb.ac.be (Internet)

13 October 2017
Version 1.09

Abstract

This bibliography records publications of Alessandro Saffiotti.

Title word cross-reference

4th [VY93].

'92 [VY93]. **'93** [Ano93a, CKM93, Ral94].
'95 [DvLV96, IEE95]. **'96** [JPD96].

Acquaintance [SS88a, SS89]. **advanced**
[VY93]. **Advances** [YKF94]. **Agents**
[Saf91a]. **AI** [Saf87, Saf88]. **ambiguity**
[KBB⁺⁰⁸]. **Amsterdam** [DvLV96]. **anchor**
[KBB⁺⁰⁸]. **Anchoring** [CS99, KBB⁺⁰⁸].
Antibodies [CCM⁺⁸⁵]. **application**
[CKS10]. **applications** [JPD96, YLZ95].
Approach [JS02, KBB⁺⁰⁸, SKR95, SS97].
approaches [CKM93]. **approximate**
[Saf96]. **April** [IEE93]. **Architecture**

[KMRS97]. **Artificial** [Ano93b, BHKL91,
LS85, BH95, PS93, Ral94, VY93]. **Assistant**
[CCM⁺⁸⁵]. **August** [BH95, Ral94].
Automatic [SU92]. **Autonomous**
[RKS93, Saf93, Saf97b, Saf97c, Saf98a, Saf99,
RSK95, SRK93c, SW95a, SW95b, Saf97a,
Saf98c, Saf98b]. **Autonomy** [KMRS97].
aware [CKS10]. **awareness** [SS88a, SS89].

Based [VY93, BDL⁺⁹⁸, SW95a, SW96].
behavior [Saf97a]. **Belief** [BSS95a, BSS95b,
BSS00, Saf91a, Saf92, SHS⁺⁹¹, BS99, SS88a].
Believers [SS88b]. **Best** [PPSW99]. **better**
[Saf88]. **Blending** [SRK93a]. **Burlingame**
[Ano93a].

CA [Ano93a]. **California** [IEE93]. **Canada**
[BH95]. **Carmel** [CHK^{+93a}, CHK^{+93b}].
Case [PS96]. **Chambery** [Ral94]. **Chapter**
[Saf98c]. **Clauses** [SU92, SU94a, SU94b].
Comparing [SPU94]. **Comparison**
[CHK^{+93a}, CHK^{+93b}]. **Conference**
[Ano93a, Ano93b, BH95, CKM93, IEE93,

- LS85, VY93]. **Construction** [SU92, SU94a, SU94b]. **Control** [SRK97, Saf99, SRK93b, SKR95, Saf98c, Saf98b]. **Controller** [RKS93, SRK93a, SHK⁺93]. **coordination** [Saf97a].
- Data** [CS99]. **DC** [Ano93b]. **Debugging** [PS96]. **December** [DvLV96]. **Default** [BSS95a, BSS95b, BSS00]. **Dempster** [Saf91b, Saf94a, YKF94]. **Dempster-Shafer** [Saf91b, YKF94]. **Dempster-Shafer's** [Saf94a]. **Design** [KMRS97]. **determination** [SS97]. **Detroit** [IEE95]. **Dialogue** [SS88b]. **Directedness** [SRK93a]. **distributed** [PS93]. **Domain** [JS02]. **Doubtful** [Saf91a]. **Driven** [SU94a, SU94b].
- ECSQARU** [CKM93]. **education** [JPD96]. **Electric** [JS02]. **Eleventh** [Ano93b, BH95]. **European** [CKM93]. **evidence** [YKF94]. **execution** [SRK94].
- Field** [JS02]. **First** [SU94a, SU94b]. **First-Order** [SU94a, SU94b]. **Flakey** [CHK⁺93a, CHK⁺93b, RKS93, SHK⁺93]. **formalisms** [PS93]. **Framework** [Saf90, BDL⁺98]. **France** [JPD96, Ral94]. **Francisco** [IEE93]. **Function** [Saf92]. **Functions** [BSS95a, BSS95b, BSS00]. **fusing** [BS99]. **fusion** [SS97]. **Fuzzy** [Ano93a, CS99, IEE93, RKS93, SRK93a, SHK⁺93, Saf97a, Saf97b, Saf97c, SRK97, Saf98a, SRK93b, SRK93c, SRK94, SW95a, SW96, SS97, YLZ95, Ral94]. **fuzzy-based** [SW95a].
- General** [SU91, SU92]. **Goal** [SRK93a]. **Goal-Directedness** [SRK93a]. **Granada** [CKM93].
- Handling** [Saf98c, Saf98b, Saf99, PS93]. **Hierarchical** [SW95a, SW95b]. **Human** [CKS10]. **Human-aware** [CKS10]. **Hybrid** [SS88b, Saf90, Saf91a, SS89].
- IJCAI** [Ral94]. **implicitly** [BDL⁺98]. **implicitly-specified** [BDL⁺98]. **inconsistency** [BDL⁺98]. **Industrial** [CCM⁺85, YLZ95]. **Inference** [SU94a, SU94b]. **Inference-Driven** [SU94a, SU94b]. **Information** [PS95a, VY93]. **Integrating** [PS93, SKR95]. **Integration** [Saf93]. **Intelligence** [Ano93b, BHKL91, LS85, BH95, PS93, Ral94, VY93]. **Intelligent** [IEE95, YLZ95]. **Intentions** [PPSW99]. **International** [IEE93, JPD96, LS85, VY93, DvLV96]. **IPMU** [VY93]. **ISRAM** [JPD96]. **Issues** [Saf94a]. **Italy** [LS85]. **July** [Ano93a, Ano93b, VY93].
- Knowledge** [Saf90, Saf91b, VY93, Saf94a]. **Knowledge-Based** [VY93]. **Krypton** [SS88b].
- Language** [SS88b]. **localization** [SW95a, SW96, Saf96]. **locations** [SW96]. **locative** [SW95b]. **Logic** [Ano93a, CS99, Saf92, Saf97b, Saf97c, SRK97, Saf98a, BS99, Ral94, SS89, SRK93b, SRK93c, SRK94, SKR95, Saf97a, YLZ95].
- M** [SS88b]. **M-Krypton** [SS88b]. **Mallorca** [VY93]. **Management** [SPU94, VY93, PS95a]. **manufacturing** [JPD96]. **March** [IEE93]. **May** [JPD96]. **McGill** [BH95]. **Medicine** [LS85]. **methods** [VY93]. **Mobile** [RKS93, Saf93, SRK97, CKS10, SRK93b, SW95a, SW95b]. **modal** [BS99]. **Model** [SHS⁺91]. **Modelling** [SS88b]. **Monoclonal** [CCM⁺85]. **Montpellier** [JPD96]. **Montreal** [BH95]. **motion** [RSK95, SRK93c]. **Multiple** [SS88b, BS99]. **multivalued** [SKR95]. **multivalued-logic** [SKR95].
- National** [Ano93b]. **Navigation**

- [Saf98a, Saf96]. **Netherlands** [DvLV96]. **Networks** [SU91]. **Notes** [Saf93]. **November** [CKM93]. **Numerical** [PS96]. **online** [Saf97b]. **Order** [SU94a, SU94b]. **Palma** [VY93]. **partial** [BDL⁺98, BS99]. **Pavia** [LS85]. **Perception** [SW96]. **Perception-based** [SW96]. **perceptual** [KBB⁺08]. **Pick** [Saf94b]. **Pick-up** [Saf94b]. **Pitch** [SS97]. **Planning** [Saf93, CKS10, KBB⁺08, RSK95, SRK93c, SKR95]. **plans** [SRK94]. **platforms** [SW95b]. **point** [Saf88]. **probability** [BDL⁺98]. **Proceedings** [Ano93b, IEE95, BH95, CKM93, DvLV96, JPD96, LS85, VY93, Ral94]. **Processing** [VY93, PS95a]. **Production** [CCM⁺85]. **Progress** [RSK95]. **Propagating** [SU91]. **PULCINELLA** [SU91]. **Qualitative** [PS95b, PS96, BDL⁺98]. **Quantitative** [PS95b, CKM93]. **Quebec** [BH95]. **Reactivity** [SRK93a, Saf93]. **reasoners** [BS99]. **Reasoning** [BSS95a, BDL⁺98, DvLV96, BSS95b, BSS00, CKM93, SW95b]. **recovery** [KBB⁺08]. **relations** [BDL⁺98]. **Representation** [Saf91b, SS88a, Saf94a]. **Representing** [Saf90]. **research** [JPD96, RSK95]. **RoboCup** [JS02]. **Robot** [RKS93, SHK⁺93, Saf96, SRK97, Saf98a, SRK93b, SRK94]. **Robotics** [JPD96, Saf97b, Saf97c, DvLV96, Saf97a]. **Robots** [PPSW99, Saf93, Saf99, CKS10, SW95a, Saf98c, Saf98b]. **Robust** [SRK93b, SRK94]. **RUR** [DvLV96]. **San** [IEE93]. **Saphira** [KMRS97]. **Second** [IEE93]. **secure** [KBB⁺08]. **self** [SW96, Saf96]. **self-localization** [SW96, Saf96]. **September** [IEE95, LS85]. **Shafer** [Saf91b, YKF94]. **Shafer's** [Saf94a]. **signals** [SS97]. **Sixth** [JPD96]. **Skilled** [CCM⁺85]. **Some** [Saf93]. **Spain** [CKM93, VY93]. **specified** [BDL⁺98]. **speech** [SS97]. **Study** [PS96]. **Sweden** [SBB⁺01, SBJW02]. **Symbolic** [CKM93]. **Symbols** [CS99]. **Symposium** [IEE95, JPD96]. **System** [Saf91a]. **Systems** [IEE93, SU92, SU94a, SU94b, VY93, YLZ95]. **task** [CKS10]. **Team** [SBB⁺01, SBJW02]. **Techniques** [SPU94]. **Theory** [Saf91b, Saf94a, YKF94]. **there** [Saf88]. **Tool** [SU91]. **Transferable** [SHS⁺91]. **Treatment** [Saf87, Saf88]. **trends** [JPD96]. **Two** [CHK⁺93a, CHK⁺93b]. **Uncertain** [Saf90]. **Uncertainty** [BH95, BHKL91, PS95b, PS96, Saf87, SU91, SPU94, Saf99, VY93, CKM93, DvLV96, PS93, PS95a, Saf88, Saf98c, Saf98b]. **unified** [BDL⁺98]. **University** [BH95]. **USA** [IEE95]. **Using** [JS02, Saf91b, SRK93c, Saf97b, Saf97c, SRK97, SRK93b, SRK94, SW96]. **Valuation** [SU91, SU92, SU94a, SU94b]. **vantage** [Saf88]. **vehicle** [RSK95, SRK93c]. **Vehicles** [IEE95]. **Verification** [PS95b, PS96]. **View** [Saf87]. **Vision** [CS99]. **vs** [CHK⁺93a, CHK⁺93b]. **Washington** [Ano93b]. **Winners** [CHK⁺93a, CHK⁺93b]. **workshop** [DvLV96, Ral94, Saf97b].

References

Anonymous:1993:FLC

- [Ano93a] Anonymous, editor. *Fuzzy Logic '93: Conference — July 1993, Burlingame, CA*. Computer Design, Westford, MA, USA, 1993.

- Anonymous:1993:PEN**
- [Ano93b] Anonymous, editor. *Proceedings of the Eleventh National Conference on Artificial Intelligence, July 11–15, 1993, Washington, DC.* AAAI Press and MIT Press, Menlo Park, CA, USA and Cambridge, MA, USA, 1993. ISBN 0-262-51071-5. LCCN Q 334 N37 1993.
- Benferhat:1998:RUI**
- [BDL⁺98] S. Benferhat, D. Dubois, J. Lang, H. Prade, A. Saffiotti, and P. Smets. Reasoning under inconsistency based on implicitly-specified partial qualitative probability relations: a unified framework. In *AAAI-98/IAAI-98 Proceedings (Madison, WI, 1998)*, pages 121–126. MIT Press, Cambridge, MA, 1998.
- Besnard:1995:UAI**
- [BH95] Philippe Besnard and Steve Hanks, editors. *Uncertainty in artificial intelligence: proceedings of the Eleventh Conference (1995): August 18–20, 1995 / Eleventh Conference on Uncertainty in Artificial Intelligence, McGill University, Montreal, Quebec, Canada.* Morgan Kaufmann Publishers, Los Altos, CA 94022, USA, 1995. ISBN 1-55860-385-9. LCCN Q375 .C66 1995.
- Bonissone:1991:ACV**
- [BHKL91] Piero Patrone Bonissone, M. Henrion, L. N. Kanal, and J. Lemmer, editors. *Uncertainty in Artificial Intelligence 6*, volume 12 of [BS99]
- Machine intelligence and pattern recognition.** Elsevier Science Publishers, Amsterdam, The Netherlands, 1991. ISBN 0-444-89264-8. LCCN Q335.U536 1991. Papers presented at the Sixth Conference on Uncertainty in Artificial Intelligence, held in July, 1990, at the Massachusetts Institute of Technology, Cambridge, MA.
- Boldrin:1999:MLF**
- Luca Boldrin and Alessandro Saffiotti. A modal logic for fusing partial belief of multiple reasoners. *J. Logic Comput.*, 9(1):81–103, 1999. ISSN 0955-792X.
- Benferah:1995:BFD**
- S. Benferah, A. Saffiotti, and P. Smets. Belief functions and default reasoning. In Besnard and Hanks [BH95], pages 19–26. ISBN 1-55860-385-9. LCCN Q375 .C66 1995. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/uai95.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#uai95>. Extended version available as TR/IRIDIA/9505.
- Benferhat:1995:BFD**
- S. Benferhat, A. Saffiotti, and P. Smets. Belief functions and default reasoning. In *Uncertainty in artificial intelligence (Montréal, PQ, 1995)*, pages 19–26. Morgan Kaufmann, San Francisco, CA, 1995.
- Benferhat:2000:BFD**
- S. Benferhat, A. Saffiotti, and P. Smets. Belief functions and de-
- [BSS95a]
- [BSS95b]
- [BSS00]

- fault reasoning. *Artificial Intelligence*, 122(1-2):1–69, 2000. CODEN AINTBB. ISSN 0004-3702 (print), 1872-7921 (electronic).
- Cerri:1985:TSA**
- [CCM⁺85] S. A. Cerri, A. Cherubini, C. Miniciotti, A. Saffiotti, and R. Sbarbati. Towards a skilled assistant in the industrial production of monoclonal antibodies. In Lotto and Stefanelli [LS85], pages 95–105. ISBN 0-444-87843-2. LCCN R859.7.D42 I57 1985.
- Congdon:1993:CVF**
- [CHK⁺93a] C. Congdon, M. Huber, D. Kortenkamp, K. Konolige, K. Myers, E. H. Ruspini, and A. Saffiotti. CARMEL vs. Flakey: A comparison of two winners. *The AI Magazine*, 14(1):49–57, Spring 1993. CODEN AIMAEK. ISSN 0738-4602. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#aim93>.
- Congdon:1993:SCV**
- [CHK⁺93b] C. Congdon, M. Huber, D. Kortenkamp, K. Konolige, K. Myers, E. H. Ruspini, and A. Saffiotti. CARMEL vs. Flakey: A comparison of two winners. *The AI Magazine*, 14(1):49–57, Spring 1993. CODEN AIMAEK. ISSN 0738-4602.
- Clarke:1993:SQA**
- [CKM93] Michael Clarke, Rudolf Kruse, and Serafin Moral, editors. *Symbolic and quantitative approaches to reasoning and uncertainty: European Conference ECSQARU '93, Granada, Spain, November 8–10, 1993: proceedings*, volume 747 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1993. CODEN LNCSD9. ISBN 0-387-57395-X (USA), 3-540-57395-X (Berlin). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN Q375 .E88 1993. DM72.00.
- Cirillo:2010:HAT**
- Marcello Cirillo, Lars Karlsson, and Alessandro Saffiotti. Human-aware task planning: An application to mobile robots. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 1(2):15:1–15:??, November 2010. CODEN ????. ISSN 2157-6904 (print), 2157-6912 (electronic).
- Coradeschi:1999:ASV**
- Silvia Coradeschi and Alessandro Saffiotti. Anchoring symbols to vision data by fuzzy logic. *Lecture Notes in Computer Science*, 1638:104–??, 1999. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/1638/16380104.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/1638/16380104.pdf>.
- Dorst:1996:RUR**
- Leo Dorst, Michiel van Lambalgen, and Frans Voorbraak, editors. *Reasoning with uncertainty in robotics: international*
- [DvLV96]

workshop, RUR '95, Amsterdam, The Netherlands, December 4–6, 1995: proceedings, volume 1093 of *Lecture Notes in Artificial Intelligence and Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1996. ISBN 3-540-61376-5. ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN TJ210.3.R87 1995. Contents: Mathematical foundations of navigation and perception for an autonomous mobile robot / J.L. Crowley – Reasoning with uncertainty in AI / F. Voorbraak – Robot navigation: integrating perception, environmental constraints and task execution within a probabilistic framework / A. Elfes – Uncertainty reasoning in object recognition by image processing / R. Hummel – Partially observable Markov decision processes for artificial intelligence / L.P. Kaelbling, M.L. Littman, A.R. Cassandra – An evidential approach to probabilistic map-building / D. Pagac, E.M. Nebot, H. Durrant-Whyte – Belief formation by constructing models / J. Paris, A. Vencovska – Causal relevance / G. Shafer – The robot control strategy in a domain with dynamical obstacles / G.V. Alferov, O.A. Malafeyev – Reasoning about noisy sensors (and effectors) in the situation calculus / F. Bacchus, J.Y. Halpern, H.J. Levesque – Recursive total least squares: an alternative to using the discrete Kalman filter in robot naviga-

[IEE93]

tion / D.L. Boley, E.S. Steinmetz, K.T. Sutherland – A sensor-based motion planner for mobile robot navigation with uncertainty / B. Bouilly, T. Simeon – Knowledge considerations in robotics / R.I. Brafman, Y. Shoham – Neural network applications in sensor fusion for an autonomous mobile robot / J.W.M. van Dam, B.J.A. Kroese, F.C.A. Groen – Structuring uncertain knowledge with hierarchical Bayesian networks / T. Frohlinghaus – Uncertainty treatment in a surface filling mobile robot / E. Gonzalez ... [et al.] – Probabilistic map learning: necessity and difficulties / P. Hebert, S. Betge-Brezetz, R. Chatila – Robot navigation with Markov models: a framework for path planning and learning with limited computational resources / S. Koenig, R. Goodwin, R.G. Simmons – A refined method for occupancy grid interpretation / K. Konolige – Sensor planning with Bayesian decision theory / S. Kristensen – Perception-based self-localization using fuzzy locations / A. Saffiotti, L.P. Wesley.

IEEE:1993:SII

IEEE, editor. *Second IEEE International Conference on Fuzzy Systems: San Francisco, California, March 28–April 1, 1993*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1993. ISBN 0-7803-0614-7 (paperback), 0-7803-0615-5 (case), 0-7803-0616-3 (microfiche), 0-

- 7803-0615-5 (casebound), 0-7803-0614-7 (softbound). LCCN TJ212.2.I3249 1993. Two volumes. IEEE catalog number: 93CH3136-9.
- IEEE:1995:PIV**
- [IEE95] IEEE, editor. *Proceedings of the Intelligent Vehicles '95 Symposium, September 25–26, 1995, Detroit, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1995. ISBN 0-7803-2983-X (softbound), 0-7803-2984-8 (microfiche). LCCN TL272.5.I62 1995. IEEE catalog number 95TH8132.
- Jamshidi:1996:RMR**
- [JPD96] Mohammad Jamshidi, François Pin, and Pierre Dauchez, editors. *Robotics and manufacturing: recent trends in research, education, and applications: proceedings of the Sixth International Symposium on Robotics and Manufacturing (ISRAM '96), May 28–30, 1996, Montpellier France*, volume 6 of *ASME Press series—proceedings of the international symposia on robotics and manufacturing*. ASME Press, New York, NY, USA, 1996. ISBN 0-7918-0047-4. ISSN 1052-4150. LCCN TS191.8.I58 1996.
- Johansson:2002:UEF**
- [JS02] Stefan J. Johansson and Alessandro Saffiotti. Using the electric field approach in the RoboCup domain. *Lecture Notes in Computer Science*, 2377:399–??, 2002. CODEN LS85]
- LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/2377/23770399.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/2377/23770399.pdf>.
- Karlsson:2008:SAR**
- [KBB⁺08] Lars Karlsson, Abdelbaki Bouguerra, Mathias Broxvall, Silvia Coradeschi, and Alessandro Saffiotti. To secure an anchor—a recovery planning approach to ambiguity in perceptual anchoring. *AI Commun.*, 21(1):1–14, 2008. ISSN 0921-7126.
- Konolige:1997:SAD**
- [KMRS97] K. Konolige, K. L. Myers, E. H. Russpini, and A. Saffiotti. The Saphira architecture: A design for autonomy. *Journal of experimental & theoretical artificial intelligence: JETAI*, 9(1):215–235, 1997. CODEN JEAIEL. ISSN 0952-813X. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/jetai96.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#jetai96>.
- Lotto:1985:AIM**
- Ivo De Lotto and Mario Stefanelli, editors. *Artificial Intelligence in Medicine: proceedings of the International Conference on Artificial Intelligence in Medicine, Pavia, Italy, 13–14 September 1985*. North-Holland, Amsterdam, The Netherlands, 1985. ISBN 0-444-87843-2. LCCN R859.7.D42 I57 1985.

- | | |
|---|---|
| <div style="border: 1px solid black; padding: 5px; text-align: center;">Parsons:1999:RBI</div> <p>[PPSW99] Simon Parsons, Ola Pettersson, Alessandro Saffiotti, and Michael Wooldridge. Robots with the best of intentions. <i>Lecture Notes in Computer Science</i>, 1600:329–??, 1999. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer-ny.com/link/service/series/0558/bibs/1600/16000329.htm; http://link.springer-ny.com/link/service/series/0558/papers/1600/16000329.pdf.</p> | <div style="border: 1px solid black; padding: 5px; text-align: center;">Parsons:1995:QVQ</div> <p>[PS95b] S. Parsons and A. Saffiotti. The qualitative verification of quantitative uncertainty. <i>Lecture Notes in Computer Science</i>, 945:180–189, 1995. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). A preliminary version appeared in the Procs. of the IPMU Conference, Paris, France, 1994.</p> |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">Parsons:1993:IUH</div> <p>[PS93] S. Parsons and A. Saffiotti. Integrating uncertainty handling formalisms in distributed artificial intelligence. In Clarke et al. [CKM93], pages 304–309. CODEN LNCSD9. ISBN 0-387-57395-X (USA), 3-540-57395-X (Berlin). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN Q375 .E88 1993. DM72.00. URL ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/lncs747.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#lncs747.</p> | <div style="border: 1px solid black; padding: 5px; text-align: center;">Parsons:1996:CSQ</div> <p>[PS96] S. Parsons and A. Saffiotti. A case study in the qualitative verification and debugging of numerical uncertainty. <i>International Journal of Approximate Reasoning</i>, 14(2/3):187–216, 1996. CODEN IJARE4. ISSN 0888-613X. URL ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/ijar96.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#ijar96.</p> |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">Parsons:1995:IPM</div> <p>[PS95a] S. Parsons and A. Saffiotti. Information processing and the management of uncertainty. <i>The Knowledge Engineering Review</i>, 10(1):83–88, 1995. CODEN KERE3. ISSN 0269-8889. Annotated conference report.</p> | <div style="border: 1px solid black; padding: 5px; text-align: center;">Ralescu:1994:FLA</div> <p>Anca L. Ralescu, editor. <i>Fuzzy logic in artificial intelligence: IJCAI '93 workshop, Chambéry, France, August 28, 1993: proceedings</i>, volume 847 of <i>Lecture Notes in Artificial Intelligence and Lecture Notes in Computer Science</i>. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1994. CODEN LNCSD9. ISBN 3-540-58409-9 (Berlin), 0-387-58409-9 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QC173.454 .F89 1994. DM39.00.</p> |

- | | |
|---|---|
| <div style="border: 1px solid black; padding: 5px; text-align: center;">Ruspini:1993:FCF</div> <p>[RKS93] E. Ruspini, K. Konolige, and A. Saffiotti. A fuzzy controller for Flakey, an autonomous mobile robot. In Anonymous [Ano93a], page A213.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Ruspini:1995:PRA</div> <p>[RSK95] E. H. Ruspini, A. Saffiotti, and K. Konolige. Progress in research on autonomous vehicle motion planning. In Yen et al. [YLZ95], pages xviii + 356. ISBN 0-7803-1048-9. LCCN TJ213 .I5376 1995. URL ftp://iridia.ulb.ac.be/pub/saffiotti/robot/yen_book95.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#yen_book. Chapter 8.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1987:AVT</div> <p>[Saf87] A. Saffiotti. An AI view of the treatment of uncertainty. <i>The Knowledge Engineering Review</i>, 2(2):75–97, 1987. CODEN KEREE3. ISSN 0269-8889. URL http://iridia.ulb.ac.be/saffiotti/abstracts.html#ker87. See the panel discussion about this paper on KER 3(1) 59–86.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1988:TUA</div> <p>[Saf88] A. Saffiotti. The treatment of uncertainty in AI: is there a better vantage point? <i>The Knowledge Engineering Review</i>, 3(1):87–91, 1988. CODEN KEREE3. ISSN 0269-8889. Rebuttal in panel discussion.</p> | <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1990:HFR</div> <p>[Saf90] A. Saffiotti. A hybrid framework for representing uncertain knowledge. In <i>Procs. of the AAAI Conf.</i>, pages 653–658. AAAI Press, Menlo Park, California, 1990. URL ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/aaai90.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#aaai90.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1991:HBS</div> <p>[Saf91a] A. Saffiotti. A hybrid belief system for doubtful agents. <i>Lecture Notes in Computer Science</i>, 521:393–402, 1991. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/lncs251.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#lncs251.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1991:UDS</div> <p>[Saf91b] A. Saffiotti. Using Dempster-Shafer theory in knowledge representation. In Bonissone et al. [BHKL91], pages 417–431. ISBN 0-444-89264-8. LCCN Q335.U536 1991. Papers presented at the Sixth Conference on Uncertainty in Artificial Intelligence, held in July, 1990, at the Massachusetts Institute of Technology, Cambridge, MA.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Saffiotti:1992:BFL</div> <p>[Saf92] Alessandro Saffiotti. A belief function logic. In <i>AAAI-92. Proceedings, Tenth National</i></p> |
|---|---|

- Conference on Artificial Intelligence (San Jose, CA, 1992)*, pages 642–647. AAAI Press, Menlo Park, CA, USA, 1992. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/aaai92.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#aaai92>.
- Saffiotti:1993:SNI**
- [Saf93] A. Saffiotti. Some notes on the integration of planning and reactivity in autonomous mobile robots. In *Procs. of the AAAI Spring Symposium on Foundations of Automatic Planning*, pages 122–126. AAAI Press, Menlo Park, California, 1993. URL ftp://iridia.ulb.ac.be/pub/saffiotti/robot/aaai_sss93.ps; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#sss93>. [Saf97a]
- Saffiotti:1994:IKR**
- [Saf94a] A. Saffiotti. Issues of knowledge representation in Dempster-Shafer's theory. In Yager et al. [YKF94], pages 415–440. ISBN 0-471-55248-8. LCCN QA76.87 .A39 1994. URL ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/yager_book94.ps; http://iridia.ulb.ac.be/saffiotti/abstracts.html#yager_book.
- Saffiotti:1994:PW**
- [Saf94b] A. Saffiotti. Pick-up what? In C. Bäckström and E. Sandewall, editors, *Current Trends in AI Planning — Procs. of EWSP '93*, pages 266–277. IOS Press, Amsterdam, The Netherlands, 1994. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/ewsp93.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#ewsp93>.
- Saffiotti:1996:RNU**
- A. Saffiotti. Robot navigation under approximate self-localization. In Jamshidi et al. [JP96], pages 589–594. ISBN 0-7918-0047-4. ISSN 1052-4150. LCCN TS191.8.I58 1996. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/wac96.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#wac96>.
- Saffiotti:1997:FLA**
- A. Saffiotti. Fuzzy logic in autonomous robotics: behavior coordination. In *Procs. of the 6th IEEE Int. Conf. on Fuzzy Systems*, pages 573–578. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1997. URL ftp://iridia.ulb.ac.be/pub/saffiotti/robot/ieee_fuzzy97.ps; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#ieee97>.
- Saffiotti:1997:UFLa**
- A. Saffiotti. Using fuzzy logic for autonomous robotics — an online workshop. *The Knowledge Engineering Review*, 12(1):91–94, 1997. CODEN KEREE3. ISSN 0269-8889.

- [Saf97c] URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/ker97.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#ker97>. Annotated conference report.
- Saffiotti:1997:UFLb**
- [Saf97d] A. Saffiotti. Using fuzzy logic in autonomous robotics. *Soft computing: newsletter of the Canadian Society for Fuzzy Information and Neural Systems*, 1(4):??, 1997. ISSN 1195-3934.
- URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/tr9706.ps>; <http://iridia.ulb.ac.be/FLAR/survey.html>. To appear.
- Saffiotti:1998:FLA**
- [Saf98a] A. Saffiotti. Fuzzy logic in autonomous robot navigation. In P. Bonissone E. H. Ruspini and W. Pedrycz, editors, *IEEE Handbook of Fuzzy Computation*. Oxford University Press, Oxford, UK, 1998. Forthcoming.
- Saffiotti:1998:HUC**
- [Saf98b] A. Saffiotti. Handling uncertainty in control of autonomous robots. In A. Hunter and S. Parsons, editors, *Uncertainty in Information Systems*, Lecture Notes in Computer Science. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1998. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/tr9708.ps>. Forthcoming.
- Saffiotti:1998:CHU**
- Alessandro Saffiotti. Chapter 10: Handling uncertainty in control of autonomous robots. *Lecture Notes in Computer Science*, 1455:198–??, 1998. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/1455/14550198.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/1455/14550198.pdf>.
- Saffiotti:1999:HUC**
- Alessandro Saffiotti. Handling uncertainty in control of autonomous robots. *Lecture Notes in Computer Science*, 1600:381–??, 1999. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/1600/16000381.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/1600/16000381.pdf>.
- Saffiotti:2001:TS**
- [SBB⁺01] A. Saffiotti, M. Boman, P. Buschka, P. Davidsson, S. Johansson, and Z. Wasik. Team sweden. *Lecture Notes in Computer Science*, 2019:643–??, 2001. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/2019/20190643.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/2019/20190643.pdf>.

- [link/service/series/0558/papers/2019/20190643.pdf](http://link.springer-ny.com/link/service/series/0558/papers/2019/20190643.pdf).
- Saffiotti:2002:TS**
- [SBJW02] A. Saffiotti, A. Björklund, S. Johansson, and Z. Wasik. Team sweden. *Lecture Notes in Computer Science*, 2377:725–??, 2002. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer-ny.com/link/service/series/0558/bibs/2377/23770725.htm>; <http://link.springer-ny.com/link/service/series/0558/papers/2377/23770725.pdf>. [SPU94]
- Saffiotti:1993:FCF**
- [SHK⁺93] A. Saffiotti, N. Helft, K. Konolige, J. Lowrance, K. Myers, D. Musto, E. Ruspini, and L. Wesley. A fuzzy controller for Flakey, the robot. In Anonymous [Ano93b], page 864. ISBN 0-262-51071-5. LCCN Q 334 N37 1993. Video abstract.
- Smets:1991:TBM**
- [SHS⁺91] P. Smets, Y-T Hsia, A. Saffiotti, R. Kennes, H. Xu, and E. Umkehrer. The transferable belief model. *Lecture Notes in Computer Science*, 548:91–98, October 1991. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).
- Saffiotti:1995:MLA**
- [SKR95] A. Saffiotti, K. Konolige, and E. H. Ruspini. A multivalued-logic approach to integrating planning and control. *Artificial Intelligence*, 76(1-2):481–526, 1995. CODEN AINTBB. ISSN 0004-3702 (print), 1872-7921 (electronic). URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/aij95.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#aij95>.
- Saffiotti:1994:CUM**
- A. Saffiotti, S. Parsons, and E. Umkehrer. Comparing uncertainty management techniques. *Microcomputers in Civil Engineering*, 9:367–380, 1994. CODEN MCENE7. ISSN 0885-9507. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#mce94>.
- Saffiotti:1993:BRG**
- [SRK93a] A. Saffiotti, E. H. Ruspini, and K. Konolige. Blending reactivity and goal-directedness in a fuzzy controller. In IEEE [IEE93], pages 134–139. ISBN 0-7803-0614-7 (paperback), 0-7803-0615-5 (case), 0-7803-0616-3 (microfiche), 0-7803-0615-5 (casebound), 0-7803-0614-7 (softbound). LCCN TJ212.2.I3249 1993. URL ftp://iridia.ulb.ac.be/pub/saffiotti/robot/ieee_fuzzy93.ps; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#ieee93>. Two volumes. IEEE catalog number: 93CH3136-9.
- Saffiotti:1993:RCM**
- [SRK93b] A. Saffiotti, E. H. Ruspini, and K. Konolige. Robust control of a mobile robot using fuzzy

- logic. In *Procs. of the First European Congress on Fuzzy and Intelligent Technologies (EUFIT)*, pages 881–886. ELITE Foundation, Aachen, Germany, 1993.
- [SRK93c] A. Saffiotti, E. H. Ruspini, and K. Konolige. Using fuzzy logic for autonomous vehicle motion planning. In *Proceedings of the NAFIPS Conference*. ????, Allentown, PA, 1993.
- [SRK94] A. Saffiotti, E. H. Ruspini, and K. Konolige. Robust execution of robot plans using fuzzy logic. In Ralescu [Ral94], pages 24–37. CODEN LNCSD9. ISBN 3-540-58409-9 (Berlin), 0-387-58409-9 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QC173.454 .F89 1994. DM39.00. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/lnai847.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#lnai847>.
- [SRK97] A. Saffiotti, E. H. Ruspini, and K. Konolige. Using fuzzy logic for mobile robot control. In H. Prade D. Dubois and H. J. Zimmermann, editors, *International Handbook of Fuzzy Sets and Possibility Theory*, volume 5. Kluwer Academic Publishers Group, Norwell, MA, USA, and Dordrecht, The Netherlands, 1997. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/hfs97>.
- [SS88a] **Saffiotti:1993:UFL**
- [SS88b] **Saffiotti:1994:RER**
- [SS89] **Saffiotti:1997:UFLc**
- [SS97] **Saffiotti:1997:PDS**
- ps; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#hfs97>. Forthcoming.
- Saffiotti:1988:AAB**
- A. Saffiotti and F. Sebastiani. Acquaintance and awareness in belief representation. In *Procs. of the Computational Intelligence Conf.*, pages 159–161. Elsevier Science Publishers, Amsterdam, The Netherlands, 1988.
- Saffiotti:1988:DMM**
- A. Saffiotti and F. Sebastiani. Dialogue modelling in M-krypton, a hybrid language for multiple believers. In *Proceedings of the 4th IEEE Conference on Artificial Intelligence Applications*, pages 56–60. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1988. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#caia88>.
- Saffiotti:1989:THL**
- A. Saffiotti and F. Sebastiani. Towards a hybrid logic of acquaintance and awareness. In A. Cohn, editor, *Procs. of the AISB 89 Conf. on AI*, pages 95–103. Pitman Publishing, London, UK, 1989. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#aisb89>.
- A. Saffiotti and A. Soquet. Pitch determination of speech signals: a fuzzy fusion approach. In *Procs. of the 7th*

- IFSA World Congress*, volume I, pages 315–320. Academia Press, Prague, CK, 1997. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/ifsa97.ps>; [SU94b] <http://iridia.ulb.ac.be/saffiotti/abstracts.html#ifsa97>.
- Saffiotti:1991:PGT**
- [SU91] A. Saffiotti and E. Umkehrer. PULCINELLA: A general tool for propagating uncertainty in valuation networks. In *Procs. of the 7th Conf. on Uncertainty in AI*, pages 323–331. Morgan Kaufmann Publishers, Los Altos, CA 94022, USA, 1991. URL <ftp://iridia.ulb.ac.be/pub/saffiotti/uncertainty/uai91.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#uai91>.
- Saffiotti:1992:ACV**
- [SU92] A. Saffiotti and E. Umkehrer. Automatic construction of valuation systems from general clauses. In Valverde and Yager [VY93], pages 341–345. CODEN LNCSD9. ISBN 0-387-56735-6 (New York), 3-540-56735-6 (Berlin: paperback). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN Q334 .I557 1992. US\$54.00, DM72.00.
- Saffiotti:1994:ACV**
- [SU94a] A. Saffiotti and E. Umkehrer. Inference-driven construction of valuation systems from first-order clauses. *IEEE Trans. Systems, Man, and Cybernetics*, 24(11):1611–1624, 1994. CODEN ISY-
- [SW95a] MAW. ISSN 0018-9472, 1083-4427.
- Saffiotti:1994:IDC**
- A. Saffiotti and E. Umkehrer. Inference-driven construction of valuation systems from first-order clauses. *IEEE Trans. Systems, Man, and Cybernetics*, 24(11):1611–1624, 1994. CODEN ISYMAW. ISSN 0018-9472, 1083-4427. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#smc94>.
- Saffiotti:1995:HFB**
- [SW95b] A. Saffiotti and L. P. Wesley. Hierarchical fuzzy-based localization in autonomous mobile robots. In *Procs. of the IFSA Conference*. ????, San Paulo, Brazil, 1995.
- Saffiotti:1995:HLR**
- A. Saffiotti and L. P. Wesley. Hierarchical locative reasoning for autonomous mobile platforms. In IEEE [IEE95], pages 202–207. ISBN 0-7803-2983-X (softbound), 0-7803-2984-8 (microfiche). LCCN TL272.5 .I62 1995. URL <http://iridia.ulb.ac.be/saffiotti/abstracts.html#iv95>. IEEE catalog number 95TH8132.
- Saffiotti:1996:PBS**
- [SW96] A. Saffiotti and L. P. Wesley. Perception-based self-localization using fuzzy locations. In Dorst et al. [DvLV96], pages 368–385. ISBN 3-540-61376-5. ISSN 0302-9743 (print), 1611-3349 (electronic).

LCCN TJ210.3 .R87 1995.
URL <ftp://iridia.ulb.ac.be/pub/saffiotti/robot/rur96.ps>; <http://iridia.ulb.ac.be/saffiotti/abstracts.html#rur96>. Contents: Mathematical foundations of navigation and perception for an autonomous mobile robot / J.L. Crowley – Reasoning with uncertainty in AI / F. Voorbraak – Robot navigation: integrating perception, environmental constraints and task execution within a probabilistic framework / A. Elfes – Uncertainty reasoning in object recognition by image processing / R. Hummel – Partially observable Markov decision processes for artificial intelligence / L.P. Kaelbling, M.L. Littman, A.R. Cassandra – An evidential approach to probabilistic map-building / D. Pagac, E.M. Nebot, H. Durrant-Whyte – Belief formation by constructing models / J. Paris, A. Vencovska – Causal relevance / G. Shafer – The robot control strategy in a domain with dynamical obstacles / G.V. Alferov, O.A. Malafeyev – Reasoning about noisy sensors (and effectors) in the situation calculus / F. Bacchus, J.Y. Halpern, H.J. Levesque – Recursive total least squares: an alternative to using the discrete Kalman filter in robot navigation / D.L. Boley, E.S. Steinmetz, K.T. Sutherland – A sensor-based motion planner for mobile robot navigation with uncertainty / B. Bouilly, T. Simeon – Knowledge considerations in robotics / R.I. Braf-

[VY93]

man, Y. Shoham – Neural network applications in sensor fusion for an autonomous mobile robot / J.W.M. van Dam, B.J.A. Kroese, F.C.A. Groen – Structuring uncertain knowledge with hierarchical Bayesian networks / T. Frohlinghaus – Uncertainty treatment in a surface filling mobile robot / E. Gonzalez ... [et al.] – Probabilistic map learning: necessity and difficulties / P. Hebert, S. Betge-Brezetz, R. Chatila – Robot navigation with Markov models: a framework for path planning and learning with limited computational resources / S. Koenig, R. Goodwin, R.G. Simmons – A refined method for occupancy grid interpretation / K. Konolige – Sensor planning with Bayesian decision theory / S. Kristensen – Perception-based self-localization using fuzzy locations / A. Saffiotti, L.P. Wesley.

Valverde:1993:IAM

Llorenç Valverde and Ronald R. Yager, editors. *IPMU '92, advanced methods in artificial intelligence: 4th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Palma de Mallorca, Spain, July 6–10, 1992: proceedings*, volume 682 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1993. CODEN LNCSD9. ISBN 0-387-56735-6 (New York), 3-540-56735-6 (Berlin: paperback).

ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN Q334 .I557 1992. US\$54.00, DM72.00.

Yager:1994:ADS

- [YKF94] Ronald R. Yager, Janusz Kacprzyk, and Mario Fedrizzi, editors. *Advances in the Dempster-Shafer theory of evidence*. Wiley, New York, NY, USA, 1994. ISBN 0-471-55248-8. vii + 597 pp. LCCN QA76.87 .A39 1994.

Yen:1995:IAF

- [YLZ95] John Yen, Reza Langari, and Lotfi A. Zadeh, editors. *Industrial applications of fuzzy logic and intelligent systems*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1995. ISBN 0-7803-1048-9. LCCN TJ213 .I5376 1995.