

# Publications

Séverin Lemaignan

*h-index: 11* (source: Google Scholar)

## International peer-reviewed journals

- Lemaignan, S. and Warnier, M. and Sisbot, E.A. and Alami, R.  
**Human-Robot Interaction: Tackling the AI Challenges**  
*Artificial Intelligence – Special Issue on Robotics* 2015. In press.
- Lemaignan, S.  
**Grounding the Interaction: Knowledge Management for Interactive Robots**  
*KI – Künstliche Intelligenz* 2013. DOI: 10.1007/s13218-013-0246-3. Dissertation abstract.
- Lallee, S. and Pattacini, U. and Lemaignan, S. and Lenz, A. and Melhuish, C. and Natale, L. and Skachek, S. and Hamann, K. and Steinwender, J. and Sisbot, E.A. and Metta, G. and Pipe, T. and Alami, R. and Warnier, M. and Guitton, J. and Warneken, F. and Dominey, P.F.  
**Towards a Platform-Independent Cooperative Human Robot Interaction System: III. An Architecture for Learning and Executing Actions and Shared Plans**  
*IEEE Transactions on Autonomous Mental Development* 2012. DOI: 10.1109/TAMD.2012.2199754.
- Lemaignan, S. and Ros, R. and Sisbot, E.A. and Alami, R. and Beetz, M.  
**Grounding the Interaction: Anchoring Situated Discourse in Everyday Human-Robot Interaction**  
*International Journal of Social Robotics* 2011. DOI: 10.1007/s12369-011-0123-x.

## Under review

- Fink, J. and Lemaignan, S. and Braboszcz, C. and Dillenbourg, P.  
**Dynamics of Anthropomorphism in Human-Robot Interaction**  
*Frontiers in Cognitive Science* 2014.

## International peer-reviewed conference articles

- Hood, D. and Lemaignan, S. and Dillenbourg, P.  
**The CoWriter Project: Teaching a Robot how to Write**  
*Proceedings of the 2015 Human-Robot Interaction Conference* 2015. Video abstract. To appear.
- Hood, D. and Lemaignan, S. and Dillenbourg, P.  
**When Children Teach a Robot to Write: An Autonomous Teachable Humanoid Which Uses Simulated Handwriting**  
*Proceedings of the 2015 Human-Robot Interaction Conference* 2015. To appear.
- Lemaignan, S. and Dillenbourg, P.  
**Mutual Modelling in Robotics: Inspirations for the Next Steps**  
*Proceedings of the 2015 Human-Robot Interaction Conference* 2015. To appear.
- Fink, J. and Retornaz, P. and Vaussard, F. and Wille, F. and Franinovic, K. and Berthoud, A. and Lemaignan, S. and Dillenbourg, P. and Mondada, F.  
**Which Robot Behavior Can Motivate Children to Tidy up Their Toys? Design and Evaluation of “Ranger”**  
*Proceedings of the 2014 Human-Robot Interaction Conference* 2014.  
DOI: 10.1145/2559636.2559659.

- Lemaignan, S. and Alami, R.  
**A Few AI Challenges Raised while Developing an Architecture for Human-Robot Cooperative Task Achievement**  
*Proceedings of the AAAI 2014 Fall Symposium Series - Artificial Intelligence and Human-Robot Interaction* 2014.
- Lemaignan, S. and Fink, J. and Dillenbourg, P.  
**The Dynamics of Anthropomorphism in Robotics**  
*Proceedings of the 2014 Human-Robot Interaction Conference* 2014.  
 DOI: 10.1145/2559636.2559814. Best Late Breaking Report Award.
- Lemaignan, S. and Fink, J. and Dillenbourg, P. and Braboszcz, C.  
**The Cognitive Correlates of Anthropomorphism**  
*Proceedings of the 2014 Human-Robot Interaction Conference, Workshop on Neurosciences and Robotics* 2014.
- Lemaignan, S. and Hanheide, M. and Karg, M. and Khambhaita, H. and Kunze, L. and Lier, F. and Lütkebohle, I. and Milliez, G.  
**Simulation and HRI – Recent Perspectives with the MORSE Simulator**  
*Proceedings of the International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAR)* 2014. DOI: 10.1007/978-3-319-11900-7\_2.
- Lemaignan, S., Hood, D., Dillenbourg, P.  
**Taught by Children: A New Role for Robots?**  
*Journées Nationales de la Robotique Interactive* 2014.
- Mondada, F. and Fink, J. and Lemaignan, S. and Mansolino, D. and Wille, F. and Franinovi, K.  
**Ranger, an Example of Integration of Robotics into the Home Ecosystem**  
*Proceedings of the International Workshop and Summer School on Medical and Service Robotics (MESROB)* 2014.
- Clodic, A. and Lemaignan, S. and Pandey, A. K. and da Silva, L. and Warnier, M. and Alami, R.  
**On robot decisional abilities for human-robot joint action**  
*Joint Action Meeting V* 2013.
- Gharbi, M. and Lemaignan, S. and Mainprice, J. and Alami, R.  
**Natural Interaction for Object Hand-Over**  
*Proceedings of the 2013 Human-Robot Interaction Conference* 2013. ISBN: 978-1-4673-3055-8. Video abstract.
- Lemaignan, S. and Alami, R.  
**Explicit Knowledge and the Deliberative Layer: Lessons Learned**  
*IEEE/RSJ International Conference on Intelligent Robots and Systems* 2013.  
 DOI: 10.1109/IRoS.2013.6697182.
- Lemaignan, S. and Alami, R.  
**“Talking to my Robot”: from Knowledge Grounding to Dialogue Processing**  
*Proceedings of the 2013 Human-Robot Interaction Conference* 2013.  
 DOI: 10.1109/HRI.2013.6483621.
- Echeverria, G. and Lemaignan, S. and Degroote, A. and Lacroix, S. and Karg, M. and Koch, P. and Lesire, C. and Stinckwich, S.  
**Simulating complex robotic scenarios with MORSE**  
*Proceedings of the Simulation, Modeling and Programming for Autonomous Robots conference* 2012.  
 DOI: 10.1007/978-3-642-34327-8\_20.
- Lemaignan, S. and Echeverria G. and Karg, M. and Mainprice, M. and Kirsch, A. and Alami, R.  
**Human-Robot Interaction in the MORSE Simulator**  
*Proceedings of the 2012 Human-Robot Interaction Conference* 2012.  
 DOI: 10.1145/2157689.2157745.
- Lemaignan, S. and Gharbi, M. and Mainprice, J. and Herrb, M. and Alami, R.  
**Roboscopia: A Theatre Performance for a Human and a Robot**  
*Proceedings of the 2012 Human-Robot Interaction Conference* 2012.  
 DOI: 10.1145/2157689.2157831. Video abstract.

- Warnier, M. and Guitton, J. and Lemaignan, S. and Alami, R.  
**When the robot puts itself in your shoes. Managing and exploiting human and robot beliefs**  
*Proceedings of the 21st IEEE International Symposium on Robot and Human Interactive Communication* 2012. DOI: 10.1109/ROMAN.2012.6343872.
- Alami, R. and Warnier, M. and Guitton, J. and Lemaignan, S. and Sisbot, E. A.  
**When the robot considers the human...**  
*Proceedings of the 15th International Symposium on Robotics Research* 2011.
- Echeverria, G. and Lassabe, N. and Degroote, A. and Lemaignan, S.  
**Modular OpenRobots Simulation Engine: MORSE**  
*Proceedings of the IEEE ICRA* 2011. DOI: 10.1109/ICRA.2011.5980252.
- Lallee, S. and Pattacini, U. and Boucher J.D. and Lemaignan, S. and Lenz, A. and Melhuish, C. and Natale, L. and Skachek, S. and Hamann, K. and Steinwender, J. and Sisbot, E.A. and Metta, G. and Alami, W. and Warnier, M. and Guitton, J. and Warneken, F. and Dominey, P.F.  
**Towards a Platform-Independent Cooperative Human-Robot Interaction System: II. Perception, Execution and Imitation of Goal Directed Actions**  
*Proceedings of the 2011 IEEE/RSJ International Conference on Intelligent Robots and Systems* 2011. DOI: 10.1109/IR0S.2011.6094744.
- Lemaignan, S. and Ros, R. and Alami, R.  
**Dialogue in situated environments: A symbolic approach to perspective-aware grounding, clarification and reasoning for robot**  
*Robotics, Science and Systems, Grounding Human-Robot Dialog for Spatial Tasks workshop* 2011.
- Lemaignan, S. and Ros, R. and Alami, R. and Beetz, M.  
**What are you talking about? Grounding dialogue in a perspective-aware robotic architecture**  
*Proceedings of the 20th IEEE International Symposium in Robot and Human Interactive Communication* 2011. DOI: 10.1109/ROMAN.2011.6005249.
- Lemaignan, S. and Sisbot, E.A. and Alami, R.  
**Anchoring interaction through symbolic knowledge**  
*Proceedings of the 2011 Human-Robot Interaction Pioneers workshop* 2011. ISBN: 978-0-557-79488-1.
- Lallee, S. and Lemaignan, S. and Lenz, A. and Melhuish, C. and Natale, L. and Skachek, S. and van Der Zant, T. and Warneken, F. and Dominey, P.F.  
**Towards a Platform-Independent Cooperative Human-Robot Interaction System: I. Perception**  
*IEEE/RSJ International Conference on Intelligent Robots and Systems* 2010. DOI: 10.1109/IR0S.2010.5652697.
- Lemaignan, S. and Ros, R. and Mosenlechner, L. and Alami, R. and Beetz, M.  
**ORO, a knowledge management platform for cognitive architectures in robotics**  
*IEEE/RSJ International Conference on Intelligent Robots and Systems* 2010. DOI: 10.1109/IR0S.2010.5649547.
- Mallet, A. and Pasteur, C. and Herrb, M. and Lemaignan, S. and Ingrand, F.F.  
**GenoM3: Building middleware-independent robotic components**  
*Proceedings of the 2010 IEEE International Conference on Robotics and Automation* 2010. DOI: 10.1109/ROBOT.2010.5509539.
- Ros, R. and Lemaignan, S. and Sisbot, E.A. and Alami, R. and Steinwender, J. and Hamann, K. and Warneken, F.  
**Which One? Grounding the Referent Based on Efficient Human-Robot Interaction**  
*19th IEEE International Symposium in Robot and Human Interactive Communication* 2010. DOI: 10.1109/ROMAN.2010.5598719.
- Ros, R. and Sisbot, E.A. and Lemaignan, S. and Pandey, A.K. and Alami, R.  
**Robot, tell me what you know about...?: Expressing robot's knowledge through interaction**  
*Proceedings of the ICRA 2010 Workshop on Interactive Communication for Autonomous Intelligent Robots (ICAIR)* 2010.

- Mehani, O. and Benenson, R. and Lemaignan, S. and Ernst, T.  
**Networking Needs and Solutions for Road Vehicles at Imara**  
*Proceedings of the 7th International Conference on ITS* 2007. DOI: 10.1109/ITST.2007.4295894.
- Stinckwich, S. and Lemaignan, S. and Saidani, S.  
**SqueakBot: a Pedagogical Robotic Platform**  
*Proceedings of the 5th International Conference on Creating, Connecting and Collaborating through Computing* 2007. DOI: 10.1109/C5.2007.28.
- Lemaignan, S. and Siadat, A. and Dantan, J.Y. and Semenenko, A.  
**MASON: A Proposal for an Ontology of Manufacturing Domain**  
*IEEE Workshop on Distributed Intelligent Systems (DIS)* 2006. DOI: 10.1109/DIS.2006.48.

### Under review

- Lemaignan, S. and Hosseini, A. and Dillenbourg, P.  
**pyRobots, a toolset for robot executive control**  
*IEEE International Conference on Robotics and Automation* 2015.

## Book chapters

- Lemaignan, S. and Alami, R. and Pandey, A. K. and Warnier, M. and Guitton, J.  
**Towards Grounding Human-Robot Interaction**  
in: *Bridges between the Methodological and Practical Work of the Robotics and Cognitive Systems Communities - From Sensors to Concepts* 2012.

## Dissertation

- Lemaignan, S.  
**Grounding the Interaction: Knowledge Management for Interactive Robots**  
2012.