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 2015.

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.
Roboscopie: 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/IROS.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/IROS.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/IROS.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.