

Full list of publications

h-index: 26 – i-10: 43 – Citations: 2750 (source: Google Scholar, checked on 27/12/2020)

International peer-reviewed journals

1. Senft, E., Lemaignan, S., Baxter, P., Bartlett, M., Belpaeme, T.
Teaching robots social autonomy from in situ human guidance
Science Robotics 2019. DOI: 10.1126/scirobotics.aat1186.
2. Wallbridge, C., Lemaignan, S., Senft, E., Belpaeme, T.
Generating Spatial Referring Expressions in a Social Robot: Dynamic vs Non-Ambiguous
Frontiers in AI and Robotics 2019. DOI: 10.3389/frobt.2019.00067.
3. Bartlett, M., Edmunds, C. E. R., Belpaeme, T., Thill, S., Lemaignan, S.
What Can You See? Identifying Cues on Internal States from the Kinematics of Natural Social Interactions
Frontiers in AI and Robotics 2019. DOI: 10.3389/frobt.2019.00049.
4. Flook, R., Shrinah, A., Wijnen, L., Eder, K., Melhuish, C., Lemaignan, S.
On the Impact of Different Types of Errors on Trust in Human-Robot Interaction: Are laboratory-based HRI experiments trustworthy?
Interaction Studies 2019. DOI: 10.1075/is.18067.flo.
5. Lemaignan, S., Edmunds E. R., C., Senft, E., Belpaeme, T.
The PInSoRo dataset: Supporting the data-driven study of child-child and child-robot social dynamics
PLOS ONE 2018. DOI: 10.1371/journal.pone.0205999.
6. Senft, E., Baxter, P., Kennedy, J., Lemaignan, S., Belpaeme, T.
Supervised Autonomy for Online Learning in Human-Robot Interaction
Pattern Recognition Letters 2017. DOI: 10.1016/j.patrec.2017.03.015.
7. Lemaignan, S., Warnier, M., Sisbot, E.A., Clodic, A., Alami, R.
Artificial Cognition for Social Human-Robot Interaction: An Implementation
Artificial Intelligence 2017. DOI: 10.1016/j.artint.2016.07.002.
8. Lemaignan, S., Jacq, A., Hood, D., Garcia, F., Paiva, A., Dillenbourg, P.
Learning by Teaching a Robot: The Case of Handwriting
IEEE Robotics and Automation Magazine 2016. DOI: 10.1109/MRA.2016.2546700.
9. Dillenbourg, P., Lemaignan, S., Sangin, M., Nova, N., Molinari, G.
The Symmetry of Partner Modelling
Intl. J. of Computer-Supported Collaborative Learning 2016. DOI: 10.1007/s11412-016-9235-5.
10. Lemaignan, S.
Grounding the Interaction: Knowledge Management for Interactive Robots [dissertation abstract]
Künstliche Intelligenz 2013. DOI: 10.1007/s13218-013-0246-3.
11. Lallée, S., Pattacini, U., Lemaignan, S., Lenz, A., Melhuish, C., Natale, L., Skachek, S., Hamann, K., Steinwender, J., Sisbot, E.A., Metta, G., Pipe, T., Alami, W., Warnier, M., Guitton, J., Warneken, F., 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.
12. Lemaignan, S., Ros, R., Sisbot, E. A., Alami, R., 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.

International peer-reviewed conference articles (6-8 pages)

13. Chance, G., Ghobrial, A., Lemaignan, S., Pipe, T., Eder, K.
An Agency-Directed Approach to Test Generation for Simulation-based Autonomous Vehicle Verification
AI Test 2020. DOI: 10.1109/AITEST49225.2020.00012.
14. Wijnen, L., Bremner, P., Lemaignan, S., Giuliani, M.
Performing Human-Robot Interaction User Studies in Virtual Reality
RoMAN 2020. DOI: 10.1109/RO-MAN47096.2020.9223521.
15. Winkle, K., Lemaignan, S., Caleb-Solly, P., Leonards, U., Turton, A., Bremner, P.
In-Situ Learning from a Domain Expert for Real World Socially Assistive Robot Deployment
RSS 2020. DOI: 10.15607/RSS.2020.XVI.059.
16. Sallami, Y., Lemaignan, S., Clodic, A., Alami, R.
Simulation-based physics reasoning for consistent scene estimation in an HRI context
IROS 2019. DOI: 10.1109/IROS40897.2019.8968106.
17. Winkle, K., Lemaignan, S., Caleb-Solly, P., Leonards, U., Turton, A., Bremner, P.
Effective Persuasion Strategies for Socially Assistive Robots
HRI 2019. DOI: 10.1109/HRI.2019.8673313.
18. Wallbridge, C., van den Berghe, R., Hernández García, D., Kanero, J., Lemaignan, S., Edmunds, C., Belpaeme, T.
Using a Robot Peer to Encourage the Production of Spatial Concepts in a Second Language
HAI 2018. DOI: 10.1145/3284432.3284433.
19. Lemaignan, S., Sallami, Y., Wallbridge, C., Clodic, A., Alami, R.
underworlds: Cascading Situation Assessment for Robots
IROS 2018. DOI: 10.1109/IROS.2018.8594094.
20. Senft, E., Lemaignan, S., Bartlett, M., Baxter, P., Belpaeme, T.
Robots in the classroom: Learning to be a Good Tutor
HRI – Workshop R4L 'Robots for Learning' 2018.
21. Irfan, B., Kennedy, J., Lemaignan, S., Papadopoulos, F., Senft, E., Belpaeme, T.
Social psychology and Human-Robot Interaction: an Uneasy Marriage
alt.HRI 2018. DOI: 10.1145/3173386.3173389.
22. Wallbridge, C., Lemaignan, S., Belpaeme, T.
Qualitative Review of Object Recognition Techniques for Tabletop Manipulation
HAI 2017. DOI: 10.1145/3125739.3132593.
23. Senft, E., Lemaignan, S., Baxter, P., Belpaeme, T.
Toward Supervised Reinforcement Learning with Partial States for Social HRI
AAAI Fall Symposium – AI-HRI 2017.
24. Özgür, A., Lemaignan, S., Johal, W., Beltran, M., Briod, M., Pereyre, L., Mondada, F., Dillenbourg, P.
Cellulo: Versatile Handheld Robots for Education
HRI 2017. DOI: 10.1145/2909824.3020247.
25. Kennedy, J., Lemaignan, S., Montassier, C., Lavalade, P., Irfan, B., Papadopoulos, F., Senft, E., Belpaeme, T.
Child Speech Recognition in Human-Robot Interaction: Evaluations and Recommendations
HRI 2017. DOI: 10.1145/2909824.3020229.
26. Chandra, S., Alves-Oliveira, P., Lemaignan, S., Sequeira, P., Paiva, A., Dillenbourg, P.
Children's Peer Assessment and Self-disclosure in the Presence of an Educational Robot
RoMAN 2016. DOI: 10.1109/ROMAN.2016.7745170.
27. Hostettler, L., Özgür, A., Lemaignan, S., Dillenbourg, P., Mondada, F.
Real-Time High-Accuracy 2D Localization with Structured Patterns
ICRA 2016. DOI: 10.1109/ICRA.2016.7487653.

28. Baxter, P., Kennedy, J., Senft E., Lemaignan, S., Belpaeme, T.
From Characterising Three Years of HRI to Methodology and Reporting Recommendations
alt.HRI 2016. DOI: 10.1109/HRI.2016.7451777.
29. Lemaignan, S., Garcia, F., Jacq, A., Dillenbourg, P.
From Real-time Attention Assessment to “With-me-ness” in Human-Robot Interaction
HRI 2016. DOI: 10.1109/HRI.2016.7451747.
30. Jacq, A., Lemaignan, S., Garcia, F., Dillenbourg, P., Paiva, A.
Building Successful Long Child-Robot Interactions in a Learning Context
HRI 2016. DOI: 10.1109/HRI.2016.7451758.
31. Baxter, P., Ashurst, E., Kennedy, J., Senft, E., Lemaignan, S., Belpaeme, T.
The Wider Supportive Role of Social Robots in the Classroom for Teachers
WONDER Workshop - ICSR 2015.
32. Lemaignan, S., Fink, J., Mondada, F., Dillenbourg, P.
You’re Doing It Wrong! Studying Unexpected Behaviors in Child-Robot Interaction
ICSR 2015. DOI: 10.1007/978-3-319-25554-5_39.
33. Lemaignan, S., Hosseini, A., Dillenbourg, P.
pyRobots: a Toolset for Robot Executive Control
IROS 2015. DOI: 10.1109/IROS.2015.7353769.
34. Karim, M. E., Lemaignan, S., Mondada, F.
A Review: Can Robots Reshape K-12 STEM Education?
ARSO 2015.
35. Chandra, S., Alves-Oliveira, P., Lemaignan, S., Sequeira, P., Paiva, A., Dillenbourg, P.
Can a Child Feel Responsible for Another in the Presence of a Robot in a Collaborative Learning Activity?
RoMAN 2015. DOI: 10.1109/ROMAN.2015.7333678.
36. Lemaignan, S., Dillenbourg, P.
Mutual Modelling in Robotics: Inspirations for the Next Steps
HRI 2015. DOI: 10.1145/2696454.2696493.
37. Hood, D., Lemaignan, S., Dillenbourg, P.
When Children Teach a Robot to Write: An Autonomous Teachable Humanoid Which Uses Simulated Handwriting
HRI 2015. DOI: 10.1145/2696454.2696479.
38. Fink, J., Rétornaz, P., Vaussard, F., Wille, F., Franinović, K., Berthoud, A., Lemaignan, S., Dillenbourg, P., Mondada, F.
Which Robot Behavior Can Motivate Children to Tidy up Their Toys? Design and Evaluation of “Ranger”
HRI 2014. DOI: 10.1145/2559636.2559659.
39. Lemaignan, S., Hanheide, M., Karg, M., Khambhaita, H., Kunze, L., Lier, F., Lütkebohle, I., Milliez, G.
Simulation and HRI - Recent Perspectives with the MORSE Simulator
SIMPAT 2014. DOI: 10.1007/978-3-319-11900-7_2.
40. Lemaignan, S., Fink, J., Dillenbourg, P., Braboszcz, C.
The Cognitive Correlates of Anthropomorphism
Workshop A bridge between Robotics and Neuroscience - HRI 2014.
41. Lemaignan, S., Alami, R.
Explicit Knowledge and the Deliberative Layer: Lessons Learned
IROS 2013. DOI: 10.1109/IROS.2013.6697182.

42. Echeverria, G., Lemaignan, S., Degroote, A., Lacroix, S., Karg, M., Koch, P., Lesire, C., Stinckwich, S.
Simulating complex robotic scenarios with MORSE
SIMPAR 2012. DOI: 10.1007/978-3-642-34327-8_20.
43. Warnier, M., Guitton, J., Lemaignan, S., Alami, R.
When the Robot Puts Itself in Your Shoes. Managing and Exploiting Human and Robot Beliefs
RoMAN 2012. DOI: 10.1109/ROMAN.2012.6343872.
44. Alami, R., Warnier, M., Guitton, J., Lemaignan, S., Sisbot, E. A.
When the robot considers the human...
ISRR 2011.
45. Lallée, S., Pattacini, U., Boucher, J.D., Lemaignan, S., Lenz, A., Melhuish, C., Natale, L., Skachek, S., Hamann, K., Steinwender, J., Sisbot, E.A., Metta, G., Alami, R., Warnier, M., Guitton, J., Warneken, F., Dominey, P.F.
Towards a Platform-Independent Cooperative Human-Robot Interaction System: II. Perception, Execution and Imitation of Goal Directed Actions
IROS 2011. DOI: 10.1109/IROS.2011.6094744.
46. Lemaignan, S., Ros, R., Alami, R., Beetz, M.
What are you talking about? Grounding dialogue in a perspective-aware robotic architecture
RoMAN 2011. DOI: 10.1109/ROMAN.2011.6005249.
47. Echeverria, G., Lassabe, N., Degroote, A., Lemaignan, S.
Modular Open Robots Simulation Engine: MORSE
ICRA 2011. DOI: 10.1109/ICRA.2011.5980252.
48. Lemaignan, S., Ros, R., Mösenlechner, L., Alami, R., Beetz, M.
ORO, a Knowledge Management Module for Cognitive Architectures in Robotics
IROS 2010. DOI: 10.1109/IROS.2010.5649547.
49. Ros, R., Lemaignan, S., Sisbot, E. A., Alami, R., Steinwender, J., Hamann, K., Warneken, F.
Which One? Grounding the Referent Based on Efficient Human-Robot Interaction
RoMAN 2010. DOI: 10.1109/ROMAN.2010.5598719.
50. Lallée, S., Lemaignan, S., Lenz, A., Melhuish, C., Natale, L., Skachek, S., van Der Zant, T., Warneken, F., Dominey, P.F.
Towards a Platform-Independent Cooperative Human-Robot Interaction System: I. Perception
IROS 2010. DOI: 10.1109/IROS.2010.5652697.
51. Mallet, A., Pasteur, C., Herrb, M., Lemaignan, S., Ingrand, F.
GenoM3: Building middleware-independent robotic components
ICRA 2010. DOI: 10.1109/ROBOT.2010.5509539.
52. Mehani, O., Benenson, R., Lemaignan, S., Ernst, T.
Networking Needs and Solutions for Road Vehicles at Imara
ITST 2007. DOI: 10.1109/ITST.2007.4295894.
53. Stinckwich, S., Lemaignan, S., Saidani, S.
SqueakBot: a Pedagogical Robotic Platform
C5 Conference 2007. DOI: 10.1109/C5.2007.28.
54. Lemaignan, S., Siadat, A., Dantan, J.Y., 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.

Short peer-reviewed publications

55. Park, C.H., Ros, R., Kwak, S., Huang, C., Lemaignan, S.
Towards Real World Impacts: Design, Development, and Deployment of Social Robots in the Wild
Frontiers in AI and Robotics 2020. DOI: 10.3389/frobt.2020.600830.

56. Sallami, Y., Winkle, K., Webb, N., Lemaignan, S., Alami, R.
The Unexpected Daily Situations (UDS) Dataset: A New Benchmark for Socially-Aware Assistive Robots
HRI 2020. DOI: 10.1145/3371382.3378270.
57. Wijnen, L., Lemaignan, S., Bremner, P.
Towards using Virtual Reality for Replicating HRI Studies
HRI 2020. DOI: 10.1145/3371382.3378374.
58. Winkle, K., Lemaignan, S., Caleb-Solly, P., Leonards, U., Turton, A., Bremner, P.
Couch to 5km Robot Coach: An Autonomous, Human-Trained Socially Assistive Robot
HRI 2020. DOI: 10.1145/3371382.3378337.
59. Wallbridge, C., Lemaignan, S., Senft, E., Belpaeme, T.
Towards Generating Spatial Referring Expressions in a Social Robot: Dynamic vs Non-Ambiguous
HRI 2019. DOI: 10.1109/HRI.2019.8673285.
60. Bartlett, M., Belpaeme, T., Thill, S., Edmunds, C. E. R., Lemaignan, S.
What Can You See? Identifying Cues on Internal States from the Kinematics of Natural Social Interactions
IDC - Workshop 'The Near Future of Children's Robotics' 2018.
61. Senft, E., Lemaignan, S., Baxter, P., Belpaeme, T.
Leveraging Human Inputs in Interactive Machine Learning for Human Robot Interaction
HRI 2017. DOI: 10.1145/3029798.3038385.
62. Senft, E., Lemaignan, S., Baxter, P., Belpaeme, T.
SPARC: an efficient way to combine reinforcement learning and supervised autonomy
NIPS - Proc. of the Future of Interactive Learning Machines (FILM) Workshop 2016.
63. Lemaignan, S., Kennedy, J., Baxter, P., Belpaeme, T.
Towards Machine-Learnable Child-Robot Interactions: the PInSoRo Dataset
RoMAN - Workshop on Long-term Child-robot Interaction 2016.
64. Kennedy, J., Lemaignan, S., Belpaeme, T.
The Cautious Attitude of Teachers Towards Social Robots in Schools
RoMAN - Workshop on Robots for Learning 2016.
65. Senft, E., Baxter, P., Kennedy, J., Lemaignan, S., Belpaeme, T.
Providing a Robot with Learning Abilities Improves its Perception by Users
HRI 2016. DOI: 10.1109/HRI.2016.7451832.
66. Baxter, P., Lemaignan, S., Trafton, G.
Workshop on Cognitive Architectures for Social Human-Robot Interaction
HRI 2016. DOI: 10.1109/HRI.2016.7451865.
67. Lemaignan, S., Alami, R.
A Few AI Challenges Raised while Developing an Architecture for Human-Robot Cooperative Task Achievement
AAAI 2014 Fall Symposium Series - Artificial Intelligence and Human-Robot Interaction 2014.
68. Lemaignan, S., Fink, J., Dillenbourg, P.
The Dynamics of Anthropomorphism in Robotics
HRI 2014. DOI: 10.1145/2559636.2559814.
69. Lemaignan, S., Echeverria, G., Karg, M., Mainprice, M., Kirsch, A., Alami, R.
Human-Robot Interaction in the MORSE Simulator
HRI 2012. DOI: 10.1145/2157689.2157745.
70. Lemaignan, S., Ros, R., Alami, R.
Dialogue in situated environments: A symbolic approach to perspective-aware grounding, clarification

and reasoning for robots

Workshop Grounding Human-Robot Dialog for Spatial Tasks - RSS 2011.

71. Lemaignan, S., Sisbot, E. A., Alami, R.
Anchoring interaction through symbolic knowledge
HRI Pioneers - HRI 2011. ISBN: 978-0-557-79488-1.
72. Ros, R., Sisbot, E. A., Lemaignan, S., Pandey, A. K., Alami, R.
Robot, tell me what you know about...?: Expressing robot's knowledge through interaction
ICAIR 2010.

Book chapters

73. Mondada, F., Fink, J., Lemaignan, S., Mansolino, D., Wille, F., Franinović, K.
Ranger, an Example of Integration of Robotics into the Home Ecosystem
2015.

Dissertation

74. Lemaignan, S.
Grounding the Interaction: Knowledge Management for Interactive Robots
CNRS - LAAS | TU München - Intelligent Autonomous Systems lab 2012.