Publications

Séverin Lemaignan

h-index: 22 - Citations: 1865 (source: Google Scholar, checked on 11/07/2019)

International peer-reviewed journals

 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.

o Wallbridge, C., Lemaignan, S., Senft, E., Belpaeme, T.

Generating Spatial Referring Expressions in a Social Robot: Dynamic vs Non-Ambiguous Frontiers in Al and Robotics 2019. DOI: 10.3389/frobt.2019.00067.

o 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.

o 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.

o 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.

 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.

 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.

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.

o 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.

Lemaignan, S.

Grounding the Interaction: Knowledge Management for Interactive Robots [dissertation abstract]

Künstliche Intelligenz 2013. DOI: 10.1007/s13218-013-0246-3.

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.

o 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)

 Sallami, Y., Lemaignan, S., Clodic, A., Alami, R.
 Simulation-based physics reasoning for consistent scene estimation in an HRI context IROS 2019.

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.

o 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.

Lemaignan, S., Sallami, Y., Wallbridge, C., Clodic, A., Alami, R. underworlds: Cascading Situation Assessment for Robots IROS 2018. DOI: 10.1109/IROS.2018.8594094.

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.

 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.

Wallbridge, C., Lemaignan, S., Belpaeme, T.
 Qualitative Project Programition Techniques

Qualitative Review of Object Recognition Techniques for Tabletop Manipulation *HAI* 2017. DOI: 10.1145/3125739.3132593.

Senft, E., Lemaignan, S., Baxter, P., Belpaeme, T.

Toward Supervised Reinforcement Learning with Partial States for Social HRI *AAAI Fall Symposium – AI-HRI* 2017.

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.

 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.

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.

 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.

Baxter, P., Kennedy, J., Senft E., Lemaignan, S., Belpaeme, T.

From Characterising Three Years of HPI to Methodology on

From Characterising Three Years of HRI to Methodology and Reporting Recommendations *alt.HRI* 2016. DOI: 10.1109/HRI.2016.7451777.

 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. 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.

 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.

o 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.

o Lemaignan, S., Hosseini, A., Dillenbourg, P.

pyRobots: a Toolset for Robot Executive Control *IROS* 2015. DOI: 10.1109/IROS.2015.7353769.

o Karim, M. E., Lemaignan, S., Mondada, F.

A Review: Can Robots Reshape K-12 STEM Education? *ARSO* 2015.

o 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.

o Lemaignan, S., Dillenbourg, P.

Mutual Modelling in Robotics: Inspirations for the Next Steps

HRI 2015. DOI: 10.1145/2696454.2696493.

o 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.

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.

Lemaignan, S., Hanheide, M., Karg, M., Khambhaita, H., Kunze, L., Lier, F., Lütkebohle, I., Milliez,

Simulation and HRI - Recent Perspectives with the MORSE Simulator

SIMPAR 2014. DOI: 10.1007/978-3-319-11900-7_2.

o Lemaignan, S., Fink, J., Dillenbourg, P., Braboszcz, C.

The Cognitive Correlates of Anthropomorphism

Workshop A bridge between Robotics and Neuroscience - HRI 2014.

o Lemaignan, S., Alami, R.

Explicit Knowledge and the Deliberative Layer: Lessons Learned

IROS 2013. DOI: 10.1109/IROS.2013.6697182.

• 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.

o 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.

o Alami, R., Warnier, M., Guitton, J., Lemaignan, S., Sisbot, E. A.

When the robot considers the human...

ISRR 2011.

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.

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.

 Echeverria, G., Lassabe, N., Degroote, A., Lemaignan, S.
 Modular Open Robots Simulation Engine: MORSE ICRA 2011. DOI: 10.1109/ICRA.2011.5980252.

O 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.

 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.

 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.

o Mallet, A., Pasteur, C., Herrb, M., Lemaignan, S., Ingrand, F.

GenoM3: Building middleware-independent robotic components *ICRA* 2010. DOI: 10.1109/R0B0T.2010.5509539.

o 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.

o Stinckwich, S., Lemaignan, S., Saidani, S.

SqueakBot: a Pedagogical Robotic Platform *C5 Conference* 2007. DOI: 10.1109/C5.2007.28.

o 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

o 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.

o 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.

o 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.

o 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.

 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.

o Kennedy, J., Lemaignan, S., Belpaeme, T.

The Cautious Attitude of Teachers Towards Social Robots in Schools *RoMAN - Workshop on Robots for Learning* 2016.

 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.

o Baxter, P., Lemaignan, S., Trafton, G.

Workshop on Cognitive Architectures for Social Human-Robot Interaction *HRI* 2016. DOI: 10.1109/HRI.2016.7451865.

o 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.

Lemaignan, S., Fink, J., Dillenbourg, P.

The Dynamics of Anthropomorphism in Robotics

HRI 2014. DOI: 10.1145/2559636.2559814.

o 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.

o 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.

o Lemaignan, S., Sisbot, E. A., Alami, R.

Anchoring interaction through symbolic knowledge

HRI Pioneers - HRI 2011. ISBN: 978-0-557-79488-1.

o 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

 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

Lemaignan, S.

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