

List of Publications

(2004–2016)

Computational Intelligence Group

(Clausthal University of Technology)

Chair: Prof. Dr. J. Dix

August 4, 2016

Starting in 2004, when the *Chair for Computational Intelligence* in Clausthal was founded, this list shows the publications of Prof. Dr. Jürgen Dix and his group members as well as theses (Habilitation, PhD, Diploma, Master and Bachelor) written under his supervision.

In total (2004–2016):

22 Edited Books;
13 Edited Special Journal Issues;
11 Invited Chapters in Books;
51 Journal Articles;
101 Workshop/Conference papers (refereed);
49 Technical Reports;
2 Habilitations;
10 PhD's;
33 Diploma/Master/Bachelor theses.

Forthcoming in 2016:

(1 Journal, 1 Special Issue, 1 PhD, 3 BSc/MSc/Diploma)

Journal Articles (1)

291. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, Philipp Kraus, and Jörg P. Müller. An architecture for scalable simulation of systems of cognitive agents. *International Journal of Agent-Oriented Software Engineering*, x(x):xxx–xxx, 2016

Special Issue (1)

290. Jürgen Dix, Koen Hindriks, Birna van Riemsdijk, and Michael Winikoff, editors. *Special Issue on Engineering Multi-Agent Systems*, volume xx of *International Journal of Agent-Oriented Software Engineering*. Inderscience Publishers, 2016

PhD thesis (1)

289. Dennis Klar. *Modellbasierte Diagnose von industriellen Steuerungs- und Automatisierungssystemen*. PhD thesis, Institut für Informatik, TU Clausthal, 2016

BSc theses (2), MSc thesis (1)

288. Sarah Diedrich. Agentenbasierte Parameteroptimierung eines Multi-Agent Programming Contest-Szenarios, September 2016. Bachelor thesis

287. Aaron Sillus. Ein Genetischer Algorithmus zur Komposition von Musik, June 2016. Bachelor thesis
286. Tobias Ahlbrecht. Modular modelling support for multiagent simulation, July 2016. Master thesis

Publications in 2015:

(3 Journal, 3 Books, 4 Conf, 1 Habil, 6 BSc/MSc/Diploma)

Journal Articles (3)

285. Nils Bulling and Hoang Nga Nguyen. Model checking resource bounded systems with shared resources via alternating büchi pushdown systems. *CoRR*, abs/1508.02326, 2015
284. Nils Bulling and Matei Popovici. A game-theoretic approach to compute stable topologies in mobile ad hoc networks. *J. Log. Comput.*, 25(3):639–667, 2015
283. Christoph Knieke and Michaela Huhn. Semantic foundation and validation of live activity diagrams. *Nordic Journal of Computing*, 15(2):112–140, 2015

Books (3)

282. Michaela Huhn, Jan Philipps, Matthias Riebisch, and Bernhard Schätz, editors. *Tagungsband des Dagstuhl-Workshops Modellbasierte Entwicklung eingebetteter Systeme (MBEES XI)*, volume 2015-01 of *fortiss Bericht*, 2015
281. Jörg P. Müller, Wolf Ketter, Gal A. Kaminka, Gerd Wagner, and Nils Bulling, editors. *Multi-agent System Technologies - 13th German Conference, MATES 2015, Cottbus, Germany, September 28-30, 2015, Revised Selected Papers*, volume 9433 of *Lecture Notes in Computer Science*. Springer, 2015
280. Nils Bulling, editor. *Multi-Agent Systems - 12th European Conference, EUMAS 2014, Prague, Czech Republic, December 18-19, 2014, Revised Selected Papers*, volume 8953 of *Lecture Notes in Computer Science*. Springer, 2015

Workshop/Conference Papers (4)

279. Nils Bulling and Hoang Nga Nguyen. Model checking resource bounded systems with shared resources via alternating büchi pushdown systems. In Qingliang Chen, Paolo Torroni, Serena Villata, Jane Yung-jen Hsu, and Andrea Omicini, editors, *PRIMA 2015: Principles and Practice of Multi-Agent Systems - 18th International Conference, Bertinoro, Italy, October 26-30, 2015, Proceedings*, volume 9387 of *Lecture Notes in Computer Science*, pages 640–649. Springer, 2015
278. Natasha Alechina, Nils Bulling, Brian Logan, and Hoang Nga Nguyen. On the boundary of (un)decidability: Decidable model-checking for a fragment of resource agent logic. In Qiang Yang and Michael Wooldridge, editors, *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence, IJCAI 2015, Buenos Aires, Argentina, July 25-31, 2015*, pages 1494–1501. AAAI Press, 2015
277. Bas Testerink, Nils Bulling, and Mehdi Dastani. A model for collaborative runtime verification. In Gerhard Weiss, Pinar Yolum, Rafael H. Bordini, and Edith Elkind, editors, *Proceedings of the 2015 International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2015, Istanbul, Turkey, May 4-8, 2015*, pages 1781–1782. ACM, 2015
276. Natasha Alechina, Nils Bulling, Mehdi Dastani, and Brian Logan. Practical run-time norm enforcement with bounded lookahead. In Gerhard Weiss, Pinar Yolum, Rafael H. Bordini, and Edith Elkind, editors, *Proceedings of the 2015 International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2015, Istanbul, Turkey, May 4-8, 2015*, pages 443–451. ACM, 2015

Habilitation thesis (1)

275. Nils Bulling. Formal methods for analysing, coordinating, and controlling decisions in multi-agent systems. <http://d-nb.info/1077842236>, 2015. Habilitation thesis

Diploma theses (3), BSc thesis (1), MSc theses (2)

274. Marc Sebastian Lucksch. Modellgetriebene Entwicklung von textuellen Editoren für die Strukturmodellierung von Bahnsicherungsanlagen, April 2015
273. Timo Rienäcker. Weiterentwicklung eines Werkzeugs zur Verifikation von SCADE-Programmen mit SMT Model Checking, October 2015
272. J. Wang. Lernmaterialien zu Algorithmen und Datenstrukturen, 2015
271. Niklas Fiekas. Ein leichtgewichtiger AgentSpeak Interpreter für C++, October 2015. Bachelor thesis
270. Naghmeh Fannipour. Adaptation of Systems Theoretic Process Analysis (STPA) for SCADE-based designs, October 2015
269. Pierre Colin Kaptue Wafo. Graphisches Werkzeug für die Strukturmodellierung von Bahnsicherungsanlagen, March 2015

Publications in 2014:

(9 Journal, 6 (3+1+2) Books, 6 Conf, 2 MSc, 1 TR)

Journal Articles (9)

268. Michaela Huhn and Stefan Milius. Observations on formal safety analysis in practice. *Science of Computer Programming*, 80, Part A(0):150 – 168, 2014. (Selected papers from FMICS'11)
267. Nils Bulling and Matei Popovici. A game-theoretic approach to compute stable topologies in mobile ad-hoc networks. *Journal of Logic and Computation*, May 2014
266. Nils Bulling. A Survey of Multi-Agent Decision Making. *KI*, 28(3):147–158, 2014
265. Nils Bulling. Editorial: Special Issue on Multi-Agent Decision Making. *KI*, 28(3):143–146, 2014
264. Nils Bulling and Wojciech Jamroga. Comparing variants of strategic ability: how uncertainty and memory influence general properties of games. *Journal of Autonomous Agents and Multi-Agent Systems*, 28(3):474–518, 2014
263. Thomas Agotnes and Nils Bulling. Formal Methods for Coordinating Multi-Agent Systems (Dagstuhl Seminar 14332). *Dagstuhl Reports*, 4(8):21–44, 2014
262. Nils Bulling. Interview With Professor Sarit Kraus. *KI*, 28(3):215–221, 2014
261. Pietro Galliani. Transition semantics: the dynamics of dependence logic. *Synthese*, 191(6):1249–1276, 2014
260. Pietro Galliani. On strongly first-order dependencies. *CoRR*, abs/1403.3698, 2014
259. Fabiano Dalpiaz, Jürgen Dix, and Birna van Riemsdijk, editors. *Engineering Multi-Agent Systems - Second International Workshop, EMAS 2014, Paris, France, May 5–7, 2014, Revised Selected Papers*, volume 8758 of *Lecture Notes in Computer Science*. Springer, 2014
258. Nils Bulling, Leendert W. N. van der Torre, Serena Villata, Wojtek Jamroga, and Wamberto Vasconcelos, editors. *Computational Logic in Multi-Agent Systems - 15th International Workshop, CLIMA XV, Prague, Czech Republic, August 18-19, 2014. Proceedings*, volume 8624 of *Lecture Notes in Computer Science*. Springer, 2014
257. Holger Giese, Michaela Huhn, Jan Philipps, and Bernhard Schätz, editors. *Tagungsband des Dagstuhl-Workshops Modellbasierte Entwicklung eingebetteter Systeme (MBEES X)*, volume 2014-01 of *fortiss Bericht*, 2014
256. Nils Bulling, editor. *Special Issue on Multi-Agent Decision Making*, volume 28 of *KI-Künstliche Intelligenz*. Springer, 2014
255. Koen Hindriks and Jürgen Dix. Goal: A multi-agent programming language applied to an exploration game. In Onn Shehory and Arnon

Sturm, editors, *Agent-Oriented Software Engineering*, pages 235–258. Springer, 2014

254. Tobias Ahlbrecht, Jürgen Dix, and Federico Schlesinger. From Testing Agent Systems to a Scalable Simulation Platform. In Thomas Eiter, Hannes Strass, Mirosław Truszczyński, and Stefan Woltran, editors, *Advances in Knowledge Representation, Logic Programming, and Abstract Argumentation. Essays Dedicated to Gerhard Brewka on the Occasion of His 60th Birthday*, volume 9060 of *Lecture Notes in Computer Science*, pages 47–62. Springer, 2014

Workshop/Conference Papers (6)

253. Henning Basold, Henning Günther, Michaela Huhn, and Stefan Milius. An open alternative for SMT-based verification of SCADE models. In Frédéric Lang and Francesco Flammini, editors, *19th International Workshop on Formal Methods for Industrial Critical Systems (FMICS)*, volume 8718 of *LNCS*, pages 124–139, 2014
252. Sara Bessling and Michaela Huhn. Towards formal safety analysis in feature-oriented product line development. In *3rd International Symposium on Foundations of Health Information Engineering and Systems (FHIES 2013)*, volume 8315 of *LNCS*, pages 217–235. Springer, 2014
251. Nils Bulling. A Boolean game based modelling of socio-technical systems. In Joerg P. Mueller, Michael Weyrich, and Ana L. C. Bazzan, editors, *MATES 2014: Multiagent System Technologies XII*, LNAI, pages 7–25. Springer, September 2014
250. Nils Bulling, Wojciech Jamroga, and Matei Popovici. ATL* with truly perfect recall: Expressivity and validities. In *Proceedings of the 21st European Conference on Artificial Intelligence (ECAI 2014)*, pages 177–182, Prague, Czech Republic, August 2014
249. Nils Bulling, Wojciech Jamroga, and Matei Popovici. Agents with truly perfect recall in alternating-time temporal logic (extended abstract). In *Proceedings of the 13th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2014)*, pages 1561–1562, Paris, France, May 2014. ACM Press

248. Tobias Ahlbrecht, Jürgen Dix, Michael Köster, Philipp Kraus, and Jörg P. Müller. A scalable runtime platform for multiagent-based simulation. In Fabiano Dalpiaz, Jürgen Dix, and Birna van Riemsdijk, editors, *Engineering Multi-Agent Systems - Second International Workshop, EMAS 2014, Paris, France, May 5–7, 2014, Revised Selected Papers*, Lecture Notes in Computer Science, pages 81–102. Springer, 2014

Technical report (1)

247. Tobias Ahlbrecht, Jürgen Dix, Michael Köster, Philipp Kraus, and Jörg P. Müller. A scalable runtime platform for multiagent-based simulation. Technical Report IfI-14-02, TU Clausthal, February 2014

MSc theses (2)

246. Xiaoqian Gu. Modellierung und Verifikation einer Familie von sicherheitskritischen, medizinischen Geräten mit SCADE, September 2014
245. Sara Mahvi. Model-Based Safety Analysis of a Medical Device using SCADE Modeling Tool, October 2014

Publications in 2013:

(6 Journal, 2 Chapters in books, 11 Conf, 1 BSc/MSc, 2 TR)

Journal Articles (6)

244. Jürgen Dix, Sven Ove Hansson, Gabriele Kern-Isberner, and Guillermo Ricardo Simari. Belief change and argumentation in multi-agent scenarios (Dagstuhl seminar 13231). *Dagstuhl Reports*, 3(6):1–21, 2013
243. Pietro Galliani. The dynamification of modal dependence logic. *Journal of Logic, Language and Information*, pages 1–27, 2013
242. P. Galliani. Transition semantics: the dynamics of dependence logic. *Synthese*, pages 1–28, 2013

241. Pietro Galliani. General models and entailment semantics for independence logic. *Notre Dame Journal of Formal Logic*, 54(2):253–275, 2013
240. Pietro Galliani. Epistemic operators in dependence logic. *Studia Logica*, pages 1–31, 2013
239. Pietro Galliani and Allen L Mann. Lottery semantics: A compositional semantics for probabilistic first-order logic with imperfect information. *Studia Logica*, pages 1–30, 2013

Chapters in books (2)

238. Rafael Bordini and Jürgen Dix. Chapter 13: Programming Multi-Agent Systems. In Gerhard Weiss, editor, *Multiagent systems*, pages 587–639. MIT-Press, 2013
237. Jürgen Dix and Michael Fisher. Chapter 14: Verifying Multi-Agent Systems. In Gerhard Weiss, editor, *Multiagent systems*, pages 641–693. MIT-Press, 2013

Workshop/Conference Papers (11)

236. Nils Bulling and Valentin Goranko. How to be both rich and happy: Combining quantitative and qualitative strategic reasoning about multi-player games. In *Proceedings of the 1st International Workshop on Strategic Reasoning*, Electronic Proceedings in Theoretical Computer Science, pages 33–41, Rome, Italy, March, 16-17 2013
235. Nils Bulling, Sujata Ghosh, and Rineke Verbrugge. Reaching your goals without spilling the beans: Boolean secrecy games. In *PRIMA 2013: Principles and Practice of Multi-Agent Systems*, pages 37–53, Dunedin, New Zealand, December 2013
234. Nils Bulling and Mehdi Dastani. Coalitional responsibility in strategic settings. In Joao Leite and Tran Cao Son, editors, *Computational Logic in Multi-Agent Systems - 14th International Workshop, CLIMA XIV*, Lecture Notes in Computer Science, pages 172–189, Corunna, Spain, September 16-18 2013. Springer
233. Michael Köster, Federico Schlesinger, and Jürgen Dix. The multi-agent programming contest

2012. In *Programming Multi-Agent Systems*, volume 7837 of *Lecture Notes in Computer Science*, pages 174–195. Springer Berlin Heidelberg, 2013

232. Tobias Ahlbrecht, Jürgen Dix, Michael Köster, and Federico Schlesinger. Multi-agent programming contest 2013. In Massimo Cossentino, Amal El Fallah-Seghrouchni, and Michael Winikoff, editors, *Engineering Multi-Agent Systems - First International Workshop, EMAS 2013, St. Paul, MN, USA, May 6-7, 2013, Revised Selected Papers*, volume 8245 of *Lecture Notes in Computer Science*, pages 292–318. Springer, 2013
231. Tobias Ahlbrecht, Christian Bender-Saebelkampff, Maiquel de Brito, Nicolai Christian Christensen, Jürgen Dix, Mariana Ramos Franco, Hendrik Heller, Andreas Viktor Hess, Axel Hefler, Jomi Fred Hübner, Andreas Schmidt Jensen, Jan-nick Boese Johnsen, Michael Köster, Chengqian Li, Lu Liu, Marcelo Menezes Morato, Philip Bratt Ørum, Federico Schlesinger, Tiago Luiz Schmitz, Jaime Simão Sichman, Kaio Siqueira de Souza, Daniela Maria Uez, Jørgen Villadsen, Sebastian Werner, Øyvind Grønland Woller, and Maicon Rafael Zatelli. Multi-agent programming contest 2013: The teams and the design of their systems. In Massimo Cossentino, Amal El Fallah-Seghrouchni, and Michael Winikoff, editors, *Engineering Multi-Agent Systems - First International Workshop, EMAS 2013, St. Paul, MN, USA, May 6-7, 2013, Revised Selected Papers*, volume 8245 of *Lecture Notes in Computer Science*, pages 366–390. Springer, 2013
230. Nils Bulling, Mehdi Dastani, and Max Knobbout. Monitoring norm violations in multi-agent systems. In *Proceedings of the 10th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2013)*, pages 491–498, Saint Paul, Minnesota, USA, May 2013. ACM Press
229. Pietro Galliani. Upwards closed dependencies in team semantics. In Gabriele Puppis and Tiziano Villa, editors, *Proceedings Fourth International Symposium on Games, Automata, Logics and Formal Verification*, volume 119 of *EPTCS*, pages 93–106, 2013
228. Pietro Galliani, Miika Hannula, and Juha Kontinen. Hierarchies in independence logic. In Simona Ronchi Della Rocca, editor, *Computer Sci-*

ence Logic 2013 (CSL 2013), volume 23 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 263–280, Dagstuhl, Germany, 2013. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik

227. Pietro Galliani and Lauri Hella. Inclusion Logic and Fixed Point Logic. In Simona Ronchi Della Rocca, editor, *Computer Science Logic 2013 (CSL 2013)*, volume 23 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 281–295, Dagstuhl, Germany, 2013. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
226. Alexandru Asandei, Ciprian Dobre, and Matei Popovici. Social-based routing with congestion avoidance in opportunistic networks. In Jacek Cichoń, Maciej Gębala, and Marek Klonowski, editors, *Ad-hoc, Mobile, and Wireless Network*, volume 7960 of *Lecture Notes in Computer Science*, pages 13–25. Springer Berlin Heidelberg, 2013

BSc thesis (1)

225. Tobias Ahlbrecht. A Tool for Computing Stable Topologies in Mobile Ad-Hoc Networks, June 2013. Bachelor thesis

Technical reports (2)

224. Nils Bulling, Michael Köster, and Matei Popovici. A game theoretic approach for stable network topologies in opportunistic networks. Technical Report IfI-12-03, Clausthal University of Technology, December 2012
223. Michael Köster, Federico Schlesinger, and Jürgen Dix. The multi-agent programming contest 2012 edition - evaluation and team descriptions. Technical Report IfI-13-01, Clausthal University of Technology, December 2013

Publications in 2012:

(2 Journal, 1 Book, 1 Chapter in Book, 4 Conf, 1 PhD's, 2 Dipl/BSc, 2 TR)

Journal Articles (2)

222. Jürgen Dix, Koen V. Hindriks, Brian Logan, and Wayne Wobcke. Engineering multi-agent sys-

tems (Dagstuhl seminar 12342). *Dagstuhl Reports*, 2(8):74–98, 2012

221. T. Behrens, M. Dastani, J. Dix, J. Hübner, M. Köster, P. Novák, and F. Schlesinger. The multi-agent programming contest. *AI Magazine*, 33(4):111–113, 2012

Book (1), Chapters in books (1)

220. Rem W. Collier, Jürgen Dix, and Peter Novák, editors. *Programming Multi-Agent Systems - 8th International Workshop, ProMAS 2010, Toronto, ON, Canada, May 11, 2010. Revised Selected Papers*, volume 6599 of *Lecture Notes in Computer Science*. Springer, 2012
219. Jürgen Dix, Wolfgang Faber, and V. S. Subrahmanian. Privacy preservation using multi-context systems and default logic. In *Correct Reasoning – Essays on Logic-Based AI in Honour of Vladimir Lifschitz*, volume 7265 of *Lecture Notes in Computer Science*, pages 195–210. Springer, 2012

Workshop/Conference Papers (4)

218. Nils Bulling, Michael Köster, and Matei Popovici. A game theoretic approach for optimal network topologies in opportunistic networks. In M. Fisher, L. van der Torre, M. Dastani, and G. Governatori, editors, *Computational Logic in Multi-Agent Systems - 13th International Workshop, CLIMA XIII, Montpellier, France, August 27-28, 2012. Proceedings*, volume 7486 of *Lecture Notes in Computer Science*, pages 128–145, Montpellier, France, 27-28 August 2012. Springer
217. Jürgen Dix, Michael Köster, and Federico Schlesinger. The multi-agent programming contest 2012. In Mehdi Dastani, Brian Logan, and Jomi Hübner, editors, *Programming Multi-Agent Systems - 10th International Workshop, ProMAS 2012, Valencia, Spain, May 11, 2012. Revised Selected Papers*, volume 7837 of *Lecture Notes in Computer Science*, pages 174–195. Springer, 2012
216. Michael Köster and Peter Lohmann. Abstraction for model checking modular interpreted systems over ATL. In Louise Dennis, Olivier Boissier, and Rafael Bordini, editors, *Programming Multi-Agent*

Systems, volume 7217 of *Lecture Notes in Computer Science*, pages 95–113. Springer Berlin / Heidelberg, 2012

215. Tristan Behrens, Michael Köster, Federico Schlesinger, Jürgen Dix, and Jomi Hübner. The multi-agent programming contest 2011: A résumé. In Louise Dennis, Olivier Boissier, and Rafael Bordini, editors, *Programming Multi-Agent Systems*, volume 7217 of *Lecture Notes in Computer Science*, pages 155–172. Springer Berlin / Heidelberg, 2012

Technical reports (2)

214. Tristan Behrens, Jürgen Dix, Jomi Hübner, Michael Köster, and Federico Schlesinger. Multi-agent programming contest 2011 edition documentation. Technical Report IfI-12-01, Clausthal University of Technology, 2012
213. Tristan Behrens, Jürgen Dix, Jomi Hübner, Michael Köster, and Federico Schlesinger. Multi-agent programming contest 2011 edition evaluation and team descriptions. Technical Report IfI-12-02, Clausthal University of Technology, 2012

PhD thesis (1)

212. Tristan Behrens. *Towards Building Blocks for Agent-Oriented Programming*. PhD thesis, Institut für Informatik, TU Clausthal, 2012

Diploma thesis (1), BSc thesis (1)

211. Jens Dehnert. Game representations and their complexity, October 2012. Diploma thesis
210. Sascha Kattelmann. Die Ehrenfeucht-Vermutung und verwandte Probleme, 2012. Bachelorarbeit

Publications in 2011:

(7 Journal, 2 Special Journal issues, 8 Conf)

Journal Articles (7)

209. Tristan Behrens, Jürgen Dix, Jomi Hübner, and Michael Köster. Editorial. *Annals of Mathematics and Artificial Intelligence*, 61:257–260, 2011

208. Jürgen Dix, Wojtek Jamroga, and Dov Samet. Reasoning about Interaction: From Game Theory to Logic and Back (Dagstuhl Seminar 11101). *Dagstuhl Reports*, 1(3):1–18, 2011

207. Jürgen Dix and Michael Fisher. Where Logic and Agents meet. *Annals of Mathematics and Artificial Intelligence*, 61(1):15–28, 2011

206. Rafael H. Bordini, Mehdi Dastani, Jürgen Dix, and Amal El Fallah-Seghrouchni. Preface. *Autonomous Agents and Multi-Agent Systems*, 23(2):155–157, 2011

205. Tristan Behrens, Koen Hindriks, and Jürgen Dix. Towards an environment interface standard for agent platforms. *Annals of Mathematics and Artificial Intelligence*, 61(4):261–295, 2011

204. Jürgen Dix and João Leite. Preface to the special issue on computational logics in multi-agent systems. *Annals of Mathematics and Artificial Intelligence*, 62(1-2):1–5, 2011

203. Tristan Behrens, Jürgen Dix, Jomi Hübner, and Michael Köster. Editorial. *Annals of Mathematics and Artificial Intelligence*, 61:257–260, 2011

Special Issues (2)

202. Rafael Bordini, Mehdi Dastani, Jürgen Dix, and Amal El Fallah Seghrouchni, editors. *Special Issue on Multi-Agent Programming*, volume 23 of *Journal of Autonomous Agents and Multi-Agent Systems*. Springer, 2011

201. Jürgen Dix and João Leite, editors. *Special Issue: Selected Papers of CLIMA 2010*, volume 62 of *Annals of Mathematics and Artificial Intelligence*. Springer, 2011

Workshop/Conference Papers (8)

200. Nils Bulling. Modellierung und Verifikation von Fähigkeiten rationaler Agenten (extended abstract). In Steffen Hölldobler, editor, *Ausgewählte Informatikdissertationen 2010*, volume 11 of *Lecture Notes in Informatics*, pages 61–70. Köllen Druck+Verlag GmbH, Bonn, 2011

199. Tristan Behrens, Rafael Bordini, Lars Braubach, Mehdi Dastani, Jürgen Dix, Koen Hindriks, Jomi Hübner, and Alexander Pokahr. An interface for agent-environment interaction. In Rem Collier, Jürgen Dix, and Peter Novák, editors, *Proceedings of 8th international Workshop on Programming Multi-Agent Systems, ProMAS 2010*, volume 6599 of *LNCS*, pages 170–185, Heidelberg, Germany, 2011. Springer Verlag
198. Wojciech Jamroga and Nils Bulling. Comparing variants of strategic ability. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI)*, pages 252–257, Barcelona, Spain, July 2011
197. Nils Bulling and Wojciech Jamroga. Alternating epistemic mu-calculus. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI)*, pages 109–114, Barcelona, Spain, July 2011
196. Nils Bulling and Mehdi Dastani. Verification and implementation of normative behaviours in multi-agent systems. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI)*, pages 103–108, Barcelona, Spain, July 2011
195. Nils Bulling and Koen V. Hindriks. Taming the complexity of linear time BDI logics. In *Proceedings of the 10th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2011)*, pages 275–282, Taipei, Taiwan, May 2011. ACM Press
194. Nils Bulling and Mehdi Dastani. Normative mechanism design (extended abstract). In *Proceedings of the 10th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2011)*, pages 1187–1188, Taipei, Taiwan, May 2011. ACM Press
193. Michael Köster and Peter Lohmann. Abstraction for model checking modular interpreted systems over ATL. In *The 10th International Conference on Autonomous Agents and Multiagent Systems - Volume 3, AAMAS '11*, pages 1129–1130, Richland, SC, 2011. International Foundation for Autonomous Agents and Multiagent Systems

Publications in 2010:

(5 Journal, 7 (3+3+1) Books, 5 Conf, 1 PhD's, 7 TR)

Journal Articles (5)

192. Nick Bassiliades, Guido Governatori, Adrian Paschke, and Jürgen Dix. Guest editors' introduction: Rule representation, interchange, and reasoning in distributed, heterogeneous environments. *IEEE Transactions for Knowledge and Data Engineering*, 22(11):1489–1491, 2010
191. Tristan Behrens, Mehdi Dastani, Jürgen Dix, Michael Köster, and Peter Novák. The multi-agent programming contest from 2005–2010: From collecting gold to herding cows. *Annals of Mathematics and Artificial Intelligence*, 59:277–311, 2010
190. Nils Bulling and Jürgen Dix. Modelling and verifying coalitions using argumentation and atl. *Inteligencia Artificial*, 14(46):45–73, March 2010
189. Nils Bulling and Wojciech Jamroga. Verifying agents with memory is harder than it seemed. *AI Communications*, 23(4):389–403, 2010
188. Michael Köster, Tristan Behrens, Jürgen Dix, Jomi Hübner, Mehdi Dastani, and Peter Novák. Editorial. *Annals of Mathematics and Artificial Intelligence*, 59:275–275, 2010

Books (3), Special Issues (3), Chapters in books (1)

187. Nick Bassiliades, Guido Governatori, Adrian Paschke, and Jürgen Dix, editors. *Special Issue on Rule Representation, Interchange, and Reasoning in Distributed, Heterogeneous Environments*, volume 22 of *IEEE Transactions of Knowledge and Data Engineering*. IEEE, 2010
186. Tristan Behrens, Mehdi Dastani, Jürgen Dix, Michael Köster, and Peter Novák, editors. *Special Issue about Multi-Agent-Contest I*, volume 59 of *Annals of Mathematics and Artificial Intelligence*. Springer, Netherlands, 2010
185. Jürgen Dix, Michael Fisher, and Peter Novák, editors. *Computational Logic and Multi-Agent*

Systems, Revised Selected and Invited Papers of CLIMA X, volume 6214 of *Lecture Notes in Computer Science*. Springer, 2010

184. Jürgen Dix, João Leite, Guido Governatori, and Wojtek Jamroga, editors. *Computational Logic in Multi-Agent Systems, 11th International Workshop, CLIMA XI, Lisbon, Portugal, August 16-17, 2010. Proceedings*, volume 6245 of *Lecture Notes in Computer Science*. Springer, 2010
183. Jürgen Dix and Cees Witteveen, editors. *Multi-agent System Technologies, 8th German Conference, MATES 2010, Leipzig, Germany, September 27-29, 2010. Proceedings*, volume 6251 of *Lecture Notes in Computer Science*. Springer, 2010
182. Tristan Behrens, Mehdi Dastani, Jürgen Dix, Michael Köster, and Peter Novák, editors. *Special Issue about Multi-Agent-Contest I*, volume 59 of *Annals of Mathematics and Artificial Intelligence*. Springer, Netherlands, 2010
181. Nils Bulling, Jürgen Dix, and Wojciech Jamroga. Model checking logics of strategic ability: Complexity. In Mehdi Dastani, Koen V. Hindriks, and John-Jules Ch. Meyer, editors, *Specification and Verification of Multi-Agent Systems*, pages 125–158. Springer, 2010

Workshop/Conference Papers (5)

180. Wojciech Jamroga and Nils Bulling. Comparing variants of strategic ability. In *Proceedings of EUMAS 2010*, pages 21–36, Paris, France, December 2010
179. Federico Schlesinger, Marcelo Errecalde, and Guillermo Aguirre. An approach to integrate web services and argumentation into a BDI system. In *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems: volume 1 - Volume 1*, AAMAS '10, pages 1371–1372, Richland, SC, 2010. International Foundation for Autonomous Agents and Multiagent Systems
178. Nils Bulling and Berndt Farwer. On the (Un-)Decidability of Model-Checking Resource-Bounded Agents. In Helder Coelho and Michael Wooldridge, editors, *Proceedings of the 19th European Conference on Artificial Intelligence (ECAI*

2010), pages 567–572, Porto, Portugal, August 16-20 2010

177. Nils Bulling and Berndt Farwer. Expressing properties of resource-bounded systems: The logics RBTL and RBTL*. In Jürgen Dix, Michael Fisher, and Peter Novák, editors, *Post-Proceedings of CLIMA '09*, number 6214 in LNCS 6214, pages 22–45, Hamburg, Germany, September 2010
176. Nils Bulling and Wojciech Jamroga. Verifying agents with memory is harder than it seemed. In *Proceedings of AAMAS 2010*, pages 699–706, Toronto, Canada, May 2010. ACM Press

PhD thesis (1)

175. Nils Bulling. *Modelling and Verifying Abilities of Rational Agents*. PhD thesis, Institut für Informatik, TU Clausthal, 2010

Technical reports (7)

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