List of Publications

(2004–2024)
Computational Intelligence Group
(Clausthal University of Technology)
Chair: Prof. Dr. J. Dix

October 10, 2024

This list, starting in 2004, when the *Chair for Computational Intelligence* in Clausthal was founded, 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 (2004–2024):

29 Edited Books;

19 Edited Special Journal Issues;

11 Invited Chapters in Books;

72 Journal Articles;

116 Workshop/Conference papers (refereed);

51 Technical Reports;

2 Habilitations;

11 PhD;

53 Diploma/Master/Bachelor theses.

Publications in 2024:

(2 Journal, 1 Book, 1 PhD, 2 BSc)

Journal Articles (2)

364. Tabajara Krausburg, Rafael H. Bordini, and Jürgen Dix. Modelling a chain of command in the incident command system using sequential characteristic function games. *Ann. Math. Artif. Intell.*, 92(4):925–951, 2024

363. Amit K. Chopra, Jürgen Dix, and Rym Zalila-Wenkstern. Introduction to the special issue: selected papers from EMAS 2022. *Ann. Math. Artif. Intell.*, 92(4):773–774, 2024

Special Issue (1)

362. Amit K. Chopra, Jürgen Dix, and Rym Zalila-Wenkstern, editors. *Selected Papers from EMAS 2022: 10th International Workshop on Engineering Multi-Agent Systems*, volume 92 of *Annals of Mathematics and Artificial Intelligence*. Springer, 2024

PhD thesis (1)

361. Tobias Ahlbrecht. *Goal-based debugging for belief-desire-intention agents*. PhD thesis, Clausthal University of Technology, Clausthal-Zellerfeld, Germany, 2024

BSc theses (2)

360. Mustafa Nazim Salih Abdalla. Beyond Tablebases: Utilising Neural Networks for Efficient Chess Endgame Resolution, September 2024. Bachelor thesis

359. Nikita Mironov. Entwurf einer domänenspezifischen Sprache zur Optimierung der Szenario-Modellierung für den Multi-Agent Programming Contest, April 2024. Bachelor thesis

Publications in 2023:

(3 Journal, 1 Book, 1 Conf, 1 BSc)

Journal Articles (3)

358. Jürgen Dix and Zhongfei Zhang. Ai's 10 to watch, 2022. *IEEE Intell. Syst.*, 38(2):3–14, 2023

357. Tobias Ahlbrecht. An algorithmic debugging approach for belief-desire-intention agents. *Annals of Mathematics and Artificial Intelligence*, pages 1–18, 2023

356. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg. The multi-agent programming contest 2022. In Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg, editors, *The Multi-Agent Programming Contest 2022*, pages 1–18, Cham, 2023. Springer International Publishing

Book (1)

355. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg. *The Multi-Agent Programming Contest 2022: Coordinating Agents in a Dynamic World: Agents Follow the Rules, or Not*, volume 13997. Springer Nature, 2023

Conference Paper (1)

354. Tonmoay Deb, Jürgen Dix, Mingi Jeong, Cristian Molinaro, Andrea Pugliese, Alberto Quattrini Li, Eugene Santos Jr., V. S. Subrahmanian, Shanchieh Yang, and Youzhi Zhang. DUCK: A drone-urban cyber-defense framework based on pareto-optimal deontic logic agents. In Brian Williams, Yiling Chen, and Jennifer Neville, editors, *Thirty-Seventh AAAI Conference on Artificial Intelligence, AAAI 2023, Thirty-Fifth Conference on Innovative Applications of Artificial Intelligence, IAAI 2023, Thirteenth Symposium on Educational Advances in Artificial Intelligence, EAAI 2023, Washington, DC, USA, February 7-14, 2023*, pages 16425–16427. AAAI Press, 2023

BSc thesis (1)

353. Tung Hoang. Lernende Agenten basierend auf dem Belief-Desire-Intention Modell, March 2023. Bachelor thesis

Publications in 2022:

(1 Journal, 1 Conf, 1 PhD, 5 BSc/MSc)

Journal Article (1)

352. Paula Böhm. Optimization-based agents in the 16th multi-agent programming contest. In Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg, editors, *The Multi-Agent Programming Contest 2022 - Coordinating Agents in a Dynamic World: Agents Follow the Rules, or Not*, volume 13997 of *Lecture Notes in Computer Science*, pages 19–53. Springer, 2022

Workshop/Conference Paper (1)

351. Tabajara Krausburg, Jürgen Dix, and Rafael H. Bordini. An mcts-based algorithm to solve sequential cfgs on valuation structures. In Reyhan Aydogan, Natalia Criado, Jérôme Lang, Víctor Sánchez-Anguix, and Marc Serramia, editors, *PRIMA 2022: Principles and Practice of Multi-Agent Systems - 24th International Conference, Valencia, Spain, November 16-18, 2022, Proceedings*, volume 13753 of *Lecture Notes in Computer Science*, pages 399–416. Springer, 2022

PhD thesis (1)

350. Tabajara Krausburg. *Sequences of coalition structures in multi-agent systems applied to disaster response.* PhD thesis, Clausthal University of Technology, Clausthal-Zellerfeld, Germany, 2022

BSc theses (4), Master thesis (1)

349. Paula Böhm. Optimierungsbasierte Agenten im MAPC, December 2022. Master thesis

348. Yamen Sahyouni. Application and adaptation of generic BDI agent modules, November 2022. Bachelor thesis

347. Nader Jawhary. Module Documentation for BDI Agents, October 2022. Bachelor thesis

346. Yuanjing Pu. Reimplementing the AlphaGo Zero Algorithm for the Game of Gomoku, March 2022. Bachelor thesis

345. Till J. Markusch. Konzepte für Multi-Agenten Simulationen basierend auf dem Multi-Agent Programming Contest, February 2022. Bachelor thesis

Publications in 2021:

(3 Journal, 3 Books, 3 Conf)

Journal Articles (3)

344. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg. The 15th multi-agent programming contest. In *The Multi-Agent Progamming Contest 2021*, volume 12947 of *LNCS/LNAI*, pages 3–20. Springer, 2021

343. Rafael C. Cardoso, Angelo Ferrando, Daniela Briola, Claudio Menghi, and Tobias Ahlbrecht. Agents and robots for reliable engineered autonomy: A perspective from the organisers of AREA 2020. *J. Sens. Actuator Networks*, 10(2):33, 2021

342. Jürgen Dix, Brian Logan, and Michael Winikoff. Preface to the special issue on engineering reliable multi-agent systems. *Auton. Agents Multi Agent Syst.*, 35(2):37, 2021

Book (1), Special Issues(2)

341. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg, editors. *The Multi-Agent Programming Contest 2021*, volume 12947 of *LNCS/LNAI*. Springer, Cham, 2021

340. Jürgen Dix, Brian Logan, and Michael Winikoff, editors. *Special Issue on engineering reliable multi-agent systems*, volume 35 of *Autonomous Agents and Multi-Agent Systems*. Springer, 2021

339. Rafael C. Cardoso, Angelo Ferrando, Daniela Briola, Claudio Menghi, and Tobias Ahlbrecht. Special issue: Agents and robots for reliable engineered autonomy. *J. Sens. Actuator Networks*, 10(3):47, 2021

Workshop/Conference Papers (4)

338. Débora C. Engelmann, Juliana Damasio, Tabajara Krausburg, Olimar Teixeira Borges, Lucca Dornelles Cezar, Alison R. Panisson, and Rafael H. Bordini. Dial4jaca - A demonstration. In Frank Dignum, Juan Manuel Corchado, and Fernando de la Prieta, editors, *Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection - 19th International*

Conference, PAAMS 2021, Salamanca, Spain, October 6-8, 2021, Proceedings, volume 12946 of *Lecture Notes in Computer Science*, pages 346–350. Springer, 2021

337. Débora C. Engelmann, Juliana Damasio, Tabajara Krausburg, Olimar Teixeira Borges, Mateus da Silveira Colissi, Alison R. Panisson, and Rafael H. Bordini. Dial4jaca - A communication interface between multi-agent systems and chatbots. In Frank Dignum, Juan Manuel Corchado, and Fernando de la Prieta, editors, *Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection - 19th International Conference, PAAMS 2021, Salamanca, Spain, October 6-8, 2021, Proceedings*, volume 12946 of *Lecture Notes in Computer Science*, pages 77–88. Springer, 2021

336. Tabajara Krausburg, Jürgen Dix, and Rafael H. Bordini. Feasible coalition sequences. In Frank Dignum, Alessio Lomuscio, Ulle Endriss, and Ann Nowé, editors, *AAMAS '21: 20th International Conference on Autonomous Agents and Multiagent Systems, Virtual Event, United Kingdom, May 3-7, 2021*, pages 719–727. ACM, 2021

335. Tabajara Krausburg, Jürgen Dix, and Rafael H. Bordini. Computing sequences of coalition structures. In *IEEE Symposium Series on Computational Intelligence, SSCI 2021, Orlando, FL, USA, December 5-7, 2021*, pages 1–7. IEEE, 2021

Publications in 2020:

(2 Journal, 3 Books, 5 Conf, 2 BSc/MSc)

Journal Articles (2)

334. Dimitrios I. Diochnos, Jürgen Dix, and Guillermo Ricardo Simari. Foreword to special issue for ISAIM 2018. *Ann. Math. Artif. Intell.*, 88(7):687–689, 2020

333. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg. The multi-agent programming contest: A résumé. In *The Multi-Agent Progamming Contest 2019*, volume 12381 of *Lecture Notes in Computer Science*, pages 3–27. Springer, Cham, 2020

Books (2), Special Issues(1)

332. Rafael C. Cardoso, Angelo Ferrando, Daniela Briola, Claudio Menghi, and Tobias Ahlbrecht, editors. *Proceedings of the First Workshop on Agents and Robots for reliable Engineered Autonomy, AREA@ECAI 2020, Virtual event, 4th September 2020*, volume 319 of *EPTCS*, 2020

331. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg, editors. *The Multi-Agent Programming Contest 2019*, volume 12381 of *LNCS/LNAI*. Springer, Cham, 2020

330. Dimitrios Diochnos, Jürgen Dix, and Guillermo Simari, editors. *Selected Papers from ISAIM 2018: The Fifteenth International Symposium on Artificial Intelligence and Mathematics*, volume 88 of *Annals of Mathematics and Artificial Intelligence*. Springer, 2020

Workshop/Conference Papers (3)

329. Tabajara Krausburg, Vinicius Chrisosthemos, Rafael H. Bordini, and Jürgen Dix. Disaster response simulation as a testbed for multi-agent systems. In Nick Bassiliades, Georgios Chalkiadakis, and Dave de Jonge, editors, *Multi-Agent Systems and Agreement Technologies - 17th European Conference, EUMAS 2020, and 7th International Conference, AT 2020, Thessaloniki, Greece, September 14-15, 2020, Revised Selected Papers*, volume

12520 of *Lecture Notes in Computer Science*, pages 67–81. Springer, 2020

328. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, and Tabajara Krausburg. Accept a challenge: The multi-agent programming contest - challenging tasks and how to deal with them. In Cristina Baroglio, Jomi Fred Hübner, and Michael Winikoff, editors, *Engineering Multi-Agent Systems - 8th International Workshop, EMAS 2020, Auckland, New Zealand, May 8-9, 2020, Revised Selected Papers*, volume 12589 of *Lecture Notes in Computer Science*, pages 129–143. Springer, 2020

327. Tabajara Krausburg, Vinicius Chrisosthemos, Rafael H. Bordini, and Jürgen Dix. Disaster response simulation. In Yves Demazeau, Tom Holvoet, Juan M. Corchado, and Stefania Costantini, editors, *Advances in Practical Applications of Agents, Multi-Agent Systems, and Trustworthiness. The PAAMS Collection - 18th International Conference, PAAMS 2020, L'Aquila, Italy, October 7-9, 2020, Proceedings*, volume 12092 of *Lecture Notes in Computer Science*, pages 434–438. Springer, 2020

326. Niklas Fiekas. Time in multi-agent systems. In Paulo Novais, Gianni Vercelli, Josep Lluís Larriba-Pey, Francisco Herrera, and Pablo Chamoso, editors, *Ambient Intelligence - Software and Applications - 11th International Symposium on Ambient Intelligence, ISAmI 2020, L'Aquila, Italy, October 7 - 9, 2020*, volume 1239 of *Advances in Intelligent Systems and Computing*, pages 243–246. Springer, 2020

325. Tabajara Krausburg. Hierarchical coalition formation in multi-agent systems. In Sara Rodríguez-González, Alfonso González-Briones, Arkadiusz Gola, George Katranas, Michela Ricca, Roussanka Loukanova, and Javier Prieto, editors, *Distributed Computing and Artificial Intelligence, Special Sessions, 17th International Conference, DCAI 2020, L'Aquila, Italy, 17-19 June 2020*, volume 1242 of *Advances in Intelligent Systems and Computing*, pages 210–214. Springer, 2020

BSc/MSc theses (2)

324. Florian Heinecke. Ausgewählte Data-Mining Methoden zur Prozessoptimierung im Selektivlöten - Ein Anwendungsszenario. Master's thesis, Institut für Informatik, March 2020. Master thesis

323. Paula Böhm. Wie legt man welche Termine fest, um sein Wohlbefinden zu verbessern? Entwicklung einer Kalender-App, December 2020. Bachelor thesis

Publications in 2019:

(2 Journal, 1 Book, 1 Conf, 1 BSc thesis)

Journal Articles (2)

322. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas. The Multi-Agent Programming Contest 2018 - A Third Time in the City. In *Multi-Agent Progamming Contest*, pages 3–22. Springer, 2019

321. Jürgen Dix, Brian Logan, and Michael Winikoff. Engineering Reliable Multiagent Systems (Dagstuhl Seminar 19112). *Dagstuhl Reports*, 9(3):52–63, 2019

Books (1)

320. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas, editors. *The Multi-Agent Programming Contest 2018 - Agents Teaming Up in an Urban Environment*, volume 11957 of *Lecture Notes in Computer Science*. Springer, 2019

Workshop/Conference Papers (1)

319. Tobias Ahlbrecht and Michael Winikoff. Explaining aggregate behaviour in cognitive agent simulations using explanation. In Calvaresi et al. [150], pages 129–146

BSc thesis (1)

318. Jan Schwede. Cache-effizientes Packen überlappender Hashtabellen, October 2019. Bachelor thesis

Publications in 2018:

(3 Journal, 3 (1+2) Books, 8 BSc/MSc theses)

Journal Articles (3)

317. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas. Multi-agent programming contest 2016. *IJAOSE*, 6(1):58–85, 2018

316. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas. Multi-agent programming contest 2017 - the twelfth edition of the MAPC. *Ann. Math. Artif. Intell.*, 84(1-2):1–16, 2018

315. Mehdi Dastani, Jürgen Dix, Harko Verhagen, and Serena Villata. Normative Multi-Agent Systems (Dagstuhl Seminar 18171). *Dagstuhl Reports*, 8(4):72–103, 2018

Book (1), Special Issue (2)

314. Mirjana Ivanovic, Costin Badica, Jürgen Dix, Zoran Jovanovic, Michele Malgeri, and Milos Savic, editors. *Intelligent Distributed Computing XI - Proceedings of the 11th International Symposium on Intelligent Distributed Computing - IDC 2017, Belgrade, Serbia, October 11-13, 2017*, volume 737 of *Studies in Computational Intelligence*. Springer, 2018

313. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas, editors. *MAPC 2016 Agents in the City*, volume 6 of *Special Issue of International Journal of Agent-Oriented Software Engineering*. Inderscience Publishers, 2018

312. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas, editors. *Multi-Agent Programming Contest 2017*, volume 84 of *Annals of Math and AI*. Springer, 2018

BSc thesis (6), MSc thesis (2)

311. Jasper Sprockhoff. Kriterien und Ansätze für die Entwicklung von Spielen eines Multi-Agenten Wettbewerbs, November 2018. Bachelor thesis

310. Thomas Borgardt. Game AI Movement and Pathfinding for Battlecode 2018, October 2018. Bachelor thesis

309. Kyle Schwalbe. Künstliche Intelligenz in der Medizin, June 2018. Bachelor thesis

308. Sarah Diedrich. Modelling Software Developer Behaviour with BDI Agents, August 2018. Master thesis

307. Niklas Fiekas. Finding Hash Functions for Bitboard Based Move Generation, April 2018. Master thesis

306. Philipp Czerner. How realistic is a change coupling graph? Estimations with convolutional networks., March 2018. Bachelor thesis

305. Sanja Alcu. KI - Einsatzmöglichkeiten im E-Commerce, March 2018. Bachelor thesis

304. Hayyan Helal. An approach using neural networks on curves to determine the front of Arabic calligraphy art works, March 2018. Bachelor thesis

Publications in 2017:

(1 Journal, 3 Conf, 2 BSc/MSc/Diploma)

Journal Articles (1)

303. Natasha Alechina, Nils Bulling, Brian Logan, and Hoang Nga Nguyen. The virtues of idleness: A decidable fragment of resource agent logic. *Artif. Intell.*, 245:56–85, 2017

Workshop/Conference Papers (3)

302. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, Jens Grabowski, Verena Herbold, Daniel Honsel, Stephan Waack, and Marlon Welter. Agent-based simulation for software development processes. In *Multi-Agent Systems and Agreement Technologies - 14th European Conference, EUMAS 2016, and 4th International Conference, AT 2016, Valencia, Spain, December 15-16, 2016, Revised Selected Papers*, volume 10207 of *Lecture Notes in Computer Science*, pages 333–340. Springer, 2017

301. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas. Scalable multi-agent simulation based on mapreduce. In *Multi-Agent Systems and Agreement Technologies - 14th European Conference, EUMAS 2016, and 4th International Conference, AT 2016, Valencia, Spain, December 15-16, 2016, Revised Selected Papers*, volume 10207 of *Lecture Notes in Computer Science*, pages 364–371. Springer, 2017

300. Daniel Honsel, Niklas Fiekas, Verena Herbold, Marlon Welter, Tobias Ahlbrecht, Stephan Waack, Jürgen Dix, and Jens Grabowski. Simulating software refactorings based on graph transformations. In *Simulation Science*, pages 161–175. Springer, 2017

BSc thesis (1), MSc thesis (1)

299. Jonathan Pieper. Entwicklung eines BDI basierten Agententeams für den MAPC, September 2017. Bachelor thesis

298. Niklas Fiekas. A simulation platform for MAS, November 2017. Master thesis

Publications in 2016:

(5 Journal, 2 Special Issues, 3 BSc/MSc/Diploma, 2 TR)

Journal Articles (5)

297. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, Michael Köster, Philipp Kraus, and Jörg P. Müller. An architecture for scalable simulation of systems of cognitive agents. *IJAOSE*, 5(2/3):232–265, 2016

296. Jürgen Dix, Sven Ove Hansson, Gabriele Kern-Isberner, and Guillermo Ricardo Simari. Belief change and argumentation in multi-agent scenarios. *Ann. Math. Artif. Intell.*, 78(3-4):177–179, 2016

295. Nils Bulling and Wiebe van der Hoek. Special issue on logical aspects of multi-agent systems. *Studia Logica*, 104(4):593–595, 2016

294. Nils Bulling. Special issue on multi-agent systems. *Ann. Math. Artif. Intell.*, 78(1):1–2, 2016

293. Nils Bulling and Mehdi Dastani. Norm-based mechanism design. *Artif. Intell.*, 239:97–142, 2016

Special Issues (2)

292. Fabiano Dalpiaz, Jürgen Dix, and Birna van Riemsdijk, editors. *Designing, Developing and Verifying Multi-Agent System*, volume 5 of *International Journal of Agent-Oriented Software Engineering*. Inderscience Publishers, 2016

291. Jürgen Dix, Sven Ove Hansson, Gabriele Kern-Isberner, and Guillermo Ricardo Simari, editors. *Belief change and argumentation in multi-agent scenarios*, volume 78. Springer, 2016

BSc theses (2), MSc thesis (1)

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

289. Aaron Sillus. Ein Genetischer Algorithmus zur Komposition von Musik, June 2016. Bachelor thesis

288. Tobias Ahlbrecht. Modular modelling support for multiagent simulation. Master's thesis, Institut für Informatik, July 2016. Master thesis

Technical report (2)

287. Tobias Ahlbrecht, Jürgen Dix, Niklas Fiekas, Jens Grabowski, Verena Herbold, Daniel Honsel, Stephan Waack, and Marlon Welter. Agent-based simulation for software development processes. Technical report, Technical Report IfI-16-02, TU Clausthal, 2016

286. Tobias Ahlbrecht, Jürgen Dix, and Niklas Fiekas. Scalable multi-agent simulation based on mapreduce. Technical report, Technical Report IfI-16-03, TU Clausthal, 2016

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. *Multiagent 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. Master's thesis, Institut für Informatik, October 2015

269. Pierre Colin Kaptue Wafo. Graphisches Werkzeug für die Strukturmodellierung von Bahnsicherungsanlagen. Master's thesis, Institut für Informatik, 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 Ågotnes 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

Books (3), Special Issue (1), Chapters in books (2)

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 Truszczynski, 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 *3nd 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

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137. Markus Gogolin. Optimierte SLPN-LTL-Modelchecker, February 2009. Diploma thesis

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135. Slawomir Deren. Inter Agent Kommunikationsmodul für Jazzyk, August 2009. Diploma thesis

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