TAILOR Conference #1, Program

We will place the link to GatherTown here and in the chat, and in the Document for questions and comments.
Any concerns, you can address me (Trine) in the zoom chat. Have a great day!

Join the Zoom Meeting:

https://liu-se.zoom.us/j/67704170718?pwd=dS9GeXp3WkNncUFaWk5RbkRNUCtVUT09

Day 1 (Tuesday Sep 21) ***All times in CEST***

Document for questions, comments and discussions: (link)
GatherTown: https://gather.town/app/b2OZOZg4BMfmzhHF/TAILOR%20Conference%201

9.00 - 9.15 Welcome and introduction of conference (Fredrik)

9.15 - 10.00 Slot 1 - TAILOR - What have we done? Where are we going? (Fredrik)

10.00 - 10.25 Q&A (Fredrik)

10.25 - 10.30 Introduction to GatherTown (Alexa)

10.30 - 11.00 Break (GatherTown)

11.00 - 12.30 Slot 2 - Scientific results: Trustworthy AI (Fosca)

12.30 - 13.30 Lunch (GatherTown)

13.30 - 14.30 Slot 3 - **Keynote M. Hildebrandt, VUB, on AI Act and Tailored AI Systems:** In this keynote I will discuss the relationship between the 7 key requirements for trustworthy AI of the HLEG on AI and the proposed AI Act. My first point will be that for these requirements to become real we need to turn them into legal obligations with legal effect. I will focus on some of the core legal requirements for high risk AI systems that seem pivotal for TAILOR: the risk management system, the quality management system, data governance, human oversight and accuracy, robustness and cybersecurity. My second point will be that many of these requirements are prime examples of legal protection by design; AI systems should be tailored in ways that combine functionality with practical and effective protection against risks to safety, health and fundamental rights.

Bio: Mireille Hildebrandt is a Research Professor of 'Interfacing Law and Technology' at Vrije Universiteit Brussel (VUB), where she is co-director of the research group on Law Science Technology and Society (LSTS) at the Faculty of Law and Criminology. She also holds a

part time Chair on Smart Environments, Data Protection and the Rule of Law at the Science Faculty of Radboud University, at the Institute of Computing and Information Sciences (iCIS). In 2019 she was awarded an ERC AdG on 'Counting as a Human Being in the Era of Computational Law'. See

14.30 - 15.00 Panel on the topic of the keynote (Holger, Ana, Barry)

15.00 - 15.30 Break (GatherTown)

15.30 - 17.00 Slot 4 - Scientific results: Integrating Paradigms (Luc)

17.00 END of DAY 1

Day 2 (Wednesday Sep 22) ***All times in CEST***

Zoom
https://liu-se.zoom.us/j/67704170718?pwd=dS9GeXp3WkNncUFaWk5RbkRNUCtVUT09

GatherTown: https://gather.town/app/b2OZOZg4BMfmzhHF/TAILOR%20Conference%201

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9.00 - 9.05 Good morning! (Fredrik)

9.05 - 10.30 Slot 5 - Scientific results: Acting, Social and AutoAI (Ana)

10.30 - 11.00 Break (GatherTown)

11.00 - 11.30 Roadmap (Marc)

11.30 - 12.00 Slot 6, part 1: Industry Collaboration (Philipp/Silke)

12.00 - 12.20 Slot 6, part 2: Network collaboration (Peter)

12.20 - 12.30 Slot 6, part 3: Connectivity Fund (Joaquin)

12.30 - 13.30 Lunch (GatherTown)

13.30 - 15.00 Slot 7 - Scientific results: Acting, Social and AutoAI (Giuseppe)

15.00 - 15.30 Break (GatherTown)

15.30 - 16.30 Slot 8 - Panel TAILOR Year 2 - How to take the next step? (André, Sarit, Maria, Patrick v d S, Kristian, Ann)

16.30 - 17.00 Conclusions (Fredrik)

17.00 END of DAY 2

Posters

Slot 2

201	Compatibility Checking Between Privacy and Utility Policies: A Query-Based Approach	Hira Asghar	Université Grenoble Alpes
202	Qualitative Analysis of Adversarial Examples in Deep Networks	Iveta Bečková	Comenius University in Bratislava
203	Prototypical Convolutional Neural Network for a phrase-based explanation of sentiment classification	Kamil Pluciński	Poznan University of Technology
204	Improving data quality in autonomous systems using human-in-the-loop for better safety and performance	Prajit Thazhurazhikath Rajendran	CEA-LIST
205	CRUSADE - Case-based Reasoning using UnSupervised Attribute DEtection	Romain XU-DARME	CEA-LIST / Université Grenoble Alpes
206	Towards explainable malware detection	Martin Homola	Comenius University in Bratislava
207	Finding optimal composite LRP for model and dataset specific explanation based on modified PSO	Martin Tamajka	Kempelen Institute of Intelligent Technologies
208	Interactive Label Cleaning with Example-based Explanations	Stefano Teso	University of Trento
209	A Distributed Differentially Private Heuristic for Resource Allocation in Unboundedly Large Settings	Panayiotis Danassis	École Polytechnique Fédérale de Lausanne (EPFL)
210	Efficiently Explaining CSPs with Unsatisfiable Subset Optimization	Gamba Emilio	Vrije Universiteit Brussel

211	Explainable decision aiding using monotonic "if..., then..." decision rules	Roman Słowiński	Poznań University of Technology

Slot 4

401	Learning Aggregation Functions	Andrea Passerini	University of Trento
402	Modular design patterns for hybrid learning and reasoning systems	André Meyer-Vitali	TNO
403	Generative Clausal Networks: Relational Decision Trees as Probabilistic Circuits	Devendra Singh Dhami	TU Darmstadt
404	Learning a Symbolic Planning Domain through the Interaction with Continuous Environments	Elena Umili	Sapienza University of Rome
405	Online Learning of Deeper Variable Ordering Heuristics for Constraint Optimisation	Neil Yorke-Smith	Delft University of Technology
406	Learning fuzzy concept inclusions from OWL real-valued data	Umberto Straccia	CNR - ISTI
407	Trustworthy AI and Cognitive Sciences	Vito Trianni	Institute of Cognitive Sciences and Technologies (ISTC), CNR
408	Beneficial And Harmful Explanatory Machine Learning	Lun Ai	Imperial College London
409	A semantic catalogue of MLC datasets and benchmark data	Ana Kostovska	Jozef Stefan Institute
410	Adversarial Autoencoders with Relational Priors	Andrea Valenti, Davide Bacciu	Computer Science Department, University of Pisa
411	Improvement of Symbolic Time Series Representation by Kernel Density Estimators	Viera Rozinajova, Matej Kloska	Slovak.AI
412	An Innovative Genetic Algorithm for the Quantum Circuit Compilation Problem	Riccardo Rasconi, Angelo Oddi	Institute of Cognitive Sciences and Technologies, CNR - Rome, ITALY
902	DeepStochLog: Neural Stochastic Logic	Thomas	KU Leuven, Belgium; AASS,

	Programming	Winters	Örebro University
904	DeepProbLog: Neural Probabilistic Logic Programming	Robin Manhaeve1	KU Leuven, Cardiff University, Ghent University - imec,

Slot 5

501	AutoML Adoption in ML Software	Koen van der Blom	Leiden University
502	Enabling Game-Theoretical Analysis of Social Rules	Nieves Montes	Artificial Intelligence Research Institute (IIIA-CSIC)
503	Normative Emotional Agents: a viewpoint paper	Daniel Pérez García	Universitat Politècnica de València
504	Analysing the Network of Tor Hidden Services	Flavio Lombardi	CNR
505	VPint: Value propagation-based spatial interpolation	Laurens Arp	Leiden University
506	Sparkle: Accessible Meta-Algorithmics for Assessing and Improving the State of the Art in Solving Challenging Problems	Koen van der Blom	Leiden University
507	Signalling boosts the evolution of cooperation in repeated group interactions	Vito Trianni	Institute of Cognitive Sciences and Technologies (ISTC), CNR
508	Metabu: Meta-Learning for Tabular Data	Herilalaina Rakotoarison	INRIA
509	The implementor-adversarial approach to deal with uncertain and correlated demands in optimization problems	Ettore Lanzarone	CNR-IMATI
510	Speeding Up Neural Network Robustness Verification via Algorithm Configuration and an Optimised Mixed Integer Linear Programming Solver Portfolio	Matthias König	Leiden University
511	Enhancing Lattice-based Motion Planning with Introspective Learning and Reasoning	Mattias Tiger	Linkoping University

512	Else-Net: Elastic Semantic Network for Continual Action Recognition from Skeleton Data	Hossein Rahmani	Singapore University of Technology and Design; University of Melbourne; Lancaster University; Nanyang Technological University

Slot 7

701	Synthesis of Search Heuristic and Ranking Functions for Temporal Planning via Reinforcement Learning	Alessandro Valentini	Fondazione Bruno Kessler
702	Target Languages (vs. Inductive Biases) for Learning to Act and Plan	Hector Geffner	ICREA & Universitat Pompeu Fabra
703	Hierarchical Representation Learning for Markov Decision Processes	Lorenzo Steccanella	Universitat Pompeu Fabra
704	Finite-Trace and Generalized-Reactivity Specifications in Temporal Synthesis	Shufang Zhu	Sapienza University of Rome
705	Self-supervised Learning of Problem Solving with Neural Program Synthesis and Task Generation	Krzysztof Krawiec	Poznan University of Technology
706	Lifted Model Checking for Relational MDPs	Wen-Chi Yang	KU Leuven
707	Correcting Hierarchical Plans by Action Deletion	Roman Barták	Charles University
708	Epistemic Logic and Epistemic Planning	Andreas Herzig	CNRS, IRIT
709	A combined knowledge and simulation-based approach for identification and evaluation of unsafe scenarios for autonomous systems	Guillaume OLLIER	CEA list
710	Simplifying the A.I. Planning modeling for Human-Robot Collaboration	Elisa Foderaro	Institute of Cognitive Science and Technology - NCR
711	Efficient PAC Reinforcement Learning in Regular Decision Processes	Alessandro Ronca	DIAG – Sapienza Università di Roma