

Program of Zhejiang University Logic and AI Summit (ZJULogAI 2023)

LNGAI: ■ EAI: ■ CLAR: ■ LAIL: ■ ZJULogAI: ■ | Timezone: Beijing

Friday, 8th September, Room 311

Chair: Bruno Bentzen

8:00- 9:00 Reception and Registration

9:00- 9:30 **ZJULogAI Opening**

9:30-10:30 **LNGAI Keynote Talk 1, Amro Najjar: *Interactive Embodied Explainable AI***

10:30-11:00 Coffee Break

11:00-12:00 **LNGAI Keynote Talk 2, Dong An: *Artificial Reactive Attitudes***

Room 311

Chair: Jie Gao

Teams Information:

<https://teams.live.com/join/9521236100308?p=leP95zQKEtkuPVYH>

13:30-14:30 **EAI Keynote Talk 1, Herman Cappelen: *A New Framework for the Philosophy of Artificial Intelligence* (ONLINE)**

14:30-15:00 Coffee Break

Room 305 EAI, Chair: Aleks Knoks	Room 311 LNGAI, Chair: Liuwen Yu
Teams Information: as above	
15:00-16:00 <i>Intentionality and Shared Perceptual Modalities</i> (ONLINE) Abouzar Moradian Tehrani	15:00-15:30 <i>Totalistic Cellular Automata and Self-referential Sentences</i> Shuwen Wu and Ming Hsiung
	15:30-16:00 <i>Reason-based detachment</i> Aleks Knoks and Leendert van der Torre
16:00-17:00 <i>What is the challenge to acquiring understanding via deep learning</i>	16:00-16:30 <i>Defeasible Description Logic Reasoning Based on Abstract Syntax Graph</i>



systems? Andre Curtis-Trudel	Dongheng Chen, Muyun Shao and Dov Gabbay 16:30-17:00 <i>Verified completeness in Henkin-style for intuitionistic propositional logic</i> Huayu Guo, Dongheng Chen and Bruno Bentzen
17:00-17:30 Discussion	17:00-17:30 <i>A Formalization of 'Ought Not to Know' Based on STIT Logic</i> Yini Huang

Saturday, 9th September, Room 311

Chair: Davide Fassio

Teams Information:

<https://teams.live.com/join/9544775541454?p=2klbCZzPVkHWvYLL>

9:00-10:00 EAI Keynote Talk 2, Fei Song: *Can AI be Moral? Two Approaches to Ethical Ais* (ONLINE)

10:00-10:30 Coffee Break

Room 305 EAI, Chair: Thomas Raleigh Teams Information: as above	Room 311 LNGAI, Chair: Pere Pardo Ventura
10:30-11:30 <i>Making large language models trustworthy: A deeper examination of alignment and misalignment</i> Xiaoyu Ke, Yang Shen, and Yu Ji	10:30-11:00 <i>A Logic for Temporal and Open Information</i> Yiheng Wang, Zhe Lin and Shier Ju
11:30-12:30 <i>Internet and the Formation of Echo Chambers</i> Qiantong Wu	11:00-11:30 <i>Assumable Logic Programming</i> Zhizheng Zhang
	11:30-11:50 <i>Design and Implementation of Legal Question Answering Robot</i> Xiaotong Fang

Room 311

Chair: Jie Gao

13:30-14:30 EAI Keynote Talk 3, Darrell Rowbottom: *Does the No Miracles Argument Apply to AI?*

14:30-15:00 Coffee Break

Room 305 EAI, Chair: Davide Fassio	Room 311 LNGAI, Chair: Davide Liga
15:00-16:00 <i>Genuine Understanding or Mere Rationalizations?</i> Luis Lopez	15:00-15:20 <i>An Interpretable Method for Biosignal-based Gesture Recognition</i> Sheng Wei and Beishui Liao
	15:20-15:40 <i>BTPK-based interpretable method for NER</i>



	<p><i>tasks based on Talmudic Public Announcement Logic</i> Yulin Chen, Beishui Liao, Bruno Bentzen, Bo Yuan, Zelai Yao, Haixiao Chi and Dov Gabbay</p> <p>15:40-16:00 <i>Modal Lambek Calculus with Primary Assumptions: Decidability and Context-freeness</i> Zhe Lin and Xinshu Wang</p>
<p>16:00-17:00 Opacity and intelligibility of Neural Networks Aleks Knoks & Thomas Raleigh</p>	<p>16:00 – 18:00 LNGAI Project Meeting Chair: Beishui Liao</p>
<p>17:00-17:30 Discussion</p>	

Sunday, 10th September, Room 311

Chair: Beishui Liao

9:00–10:00 ZJULogAI Keynote Talk, Fangzhen Lin: *Using Language Models For Knowledge Acquisition in Natural Language Reasoning Problems*

10:00-10:30 Coffee Break

10:30-11:30 CLAR Keynote Talk 1, Yanjing Wang: *A Bundled Approach to Deontic Logic*

Room 311 CLAR, Chair: Thomas Raleigh

11:30–12:00 *A Structured Bipolar Argumentation Theory for Providing Explanations in Practical Reasoning*

Zhe Yu, Yiwei Lu

12:00–12:30 *Weakest Link in Formal Argumentation: Lookahead and Principle-based Analysis*

Chen Chen, Pere Pardo, Leendert van der Torre, Liuwen Yu

14:00-19:30 Social Event & Banquet

Social Event:

Take a group photo at Yuquan Campus of Zhejiang University;
Then have an excursion in Hangzhou Botanical Garden.

The Banquet:

At a time-honored restaurant in Hangzhou Botanical Garden.



Monday, 11th September, Room 311

Chair: Jieting Luo

9:00-10:00 CLAR Keynote Talk 2, Thomas Studer: *Modal and Justification Logics for Multi-agent Systems*

10:00-10:30 Coffee Break

<p>Room 305 LAIL, Chair: Minghui Xiong Teams Information: https://teams.live.com/join/9518841270596?p=ZITcBAatShhjS1yC8</p>	<p>Room 311 CLAR, Chair: Davide Liga</p>
<p>10:30-11:00 <i>Computing Logic of the Initial Probability of Bayesian Artificial Intelligence</i> Wenjing Du and Zihan Niu</p>	<p>10:30-11:00 <i>Providing Personalized Explanations: A Conversational Approach</i> Jieting Luo, Thomas Studer, Mehdi Dastani</p>
<p>11:00-11:30 <i>A Logical Approach to Post-Quantum Conditional Digital Signatures</i> Xiang Li, Xin Sun and Xingchi Su</p>	<p>11:00-11:30 <i>Audience Irrelevance in Strategic Argumentation Games</i> Liping Tang, Ryuichiro Ishikawa</p>
<p>11:30-12:00 <i>A Deontic Logic for Programming Rightful Machines: Kant's Demand for Consistency in the Law</i> Ava Thomas Wright (ONLINE)</p>	<p>11:30-11:50 <i>A Logic for Preference Lifting under Uncertainty and its Decidability</i> Xiaoxuan Fu, Zhiguang Zhao</p>

Room 311

Zoom Information:

Account: 812 509 24661

Password: 402404

Chair: Xin Sun

13:30-14:30 LAIL Keynote Talk 1, Bart Verheij: *Hybrid Decision-making Using Knowledge and Data* (ONLINE)

Chair: Pere Pardo Ventura

14:30-15:30 CLAR Keynote Talk 3, Leila Amgoud: *Evaluation of Arguments: Foundations and Semantics* (ONLINE)

15:30-15:45 Coffee Break



Room 100 Lecture Hall

16:00-16:30 Leendert van der Torre's Bao Yugang Chair Professor Appointment Ceremony

16:30-18:00 **LNGAI Keynote Talk 3, Leendert van der Torre: *Advanced Intelligent Systems and Reasoning: Standardization, Experimentation, Explanation***

Tuesday, 12th September

Room 311 CLAR, Chair: Bruno Bentzen

9:00 – 9:30 *Topological Conditions and Solutions for Repairing Argumentation Frameworks*

Kazuko Takahashi, Hiroyoshi Miwa

9:30 – 10:00 *A Filtering-based General Approach to Learning Rational Constraints of Epistemic Graphs*

Xiao Chi

10:00 – 10:30 **Coffee Break, Chair: Amro Najjar**

10:30 – 11:00 *Fuzzy Labeling Semantics for Quantitative Argumentation*

Zongshun Wang, Yuping Shen

11:00 – 11:30 *Dynamic Modal Logic with Counting: when Reduction Axioms Work and Fail*

Xiaoxuan Fu, Zhiguang Zhao

Room 305**Zoom Information:**

Account: 895 935 30627

Password: 396198

Chair: Bin Wei

13:30-14:30 **LAIL Keynote Talk 2, Monica Palmirani: *Symbolic and Sub-symbolic AI for Legislation* (ONLINE)**

14:30-15:00 **Coffee Break**

Room 305 LAIL, Chair: Bin Wei Zoom LAIL Group	Room 311 CLAR, Chair: Aleks Knoks Zoom CLAR Group
15:00-15:30 <i>Finding Factors in Legal Case-Based Reasoning</i> , Cecilia Di Florio, Xinghan Liu, Emiliano Lorini, Antonino Rotolo and Giovanni Sartor (ONLINE)	15:00–15:30 <i>Solving Modal Logic Problems by Translation to Higher-order Logic</i> Alexander Steen, Geoff Sutcliffe, Tobias Scholl, Christoph Benzmueller (ONLINE)
15:30-16:00 <i>Multi-criteria Coherence Ranking of Legal Theories: The Aggregation Problem and Possible Solutions</i> Tianwen Xu	15:30–16:00 <i>Formalizing the Unexpected Hanging Paradox: A Classical Surprise</i> (Video) Polina Vinogradova (ONLINE)



	16:00-16:30 <i>A Logical Encoding for k-m-Realization of Extensions in Abstract Argumentation</i> Jean-Guy Mailly (ONLINE)
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Room 311**Chair: Jieting Luo****16:30-17:30** LNGAI Keynote Talk 4, Mehdi Dastani: *Controllable Artificial Intelligence* (**ONLINE**)**17:30-17:45** **Closing Remarks**