

QR07

21st Annual Workshop on Qualitative Reasoning

Wednesday 27th June

8:30am Registration Room A14, Hugh Owen Building

8:45 **Welcome**

9am Session 1 Room A14, Hugh Owen Building

Plenty of Blame to Go Around: A Qualitative Approach to Attribution of Moral Responsibility, *Emmett Tomai, Ken Forbus*

Arguing About Radioisotope Dating, *Laura Rassbach, Elizabeth Bradley, Kenneth Anderson, Christopher Zweck, Marek Zreda*

Using Qualitative Representations and Analogical Mapping to Solve Problems from a Spatial Intelligence Test, *Andrew Lovett, Kenneth Forbus, Jeffrey Usher*

10:30 **Coffee Break** **Wasdell Room, Penbryn**

11am Session 2 Room A14, Hugh Owen Building

On Choosing Abstractions for Hierarchical Diagnosis, *Fabien Perrot, Louise Travé-Massuyès*M2 CIRO: Qualitative fluid flow modelling for aerospace FMEA application, *Neal Snooke*Generating test-cases from qualitative knowledge, *Franz Wotawa*

12:30 Lunch Waddell Room, Penbryn

2pm Session 3 Room A14, Hugh Owen Building

On Qualitative Probabilities for Legal Reasoning about Evidence, *Jeroen Keppens*Learning Financial Rating Tendencies with Qualitative Trees, *Llorenç Roselló, Mónica Sánchez, Núria Agell, Francesc Prats*

Using aggregation for automatic identification of work processes in the managerial hierarchy,
Bahadır Kaan Özütam and Cem Say

3:30 **Coffee break** **Wasdell Room, Penbryn**

4pm Business meeting Room A14, Hugh Owen Building

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21st Annual Workshop on Qualitative Reasoning

Thursday 28th June

9am

Session 4

Room A14, Hugh Owen Building

Capturing and Categorizing Mental Models of Food Webs using QCM, *Morteza Dehghani, Sara Unsworth, Andrew Lovett, Kenneth D. Forbus*

A formal theory of qualitative size and distance relations between regions, *Thomas Bittner, Maureen Donnelly*

A Common Framework for Qualitative and Quantitative Modelling, *Klaus Eisenack*

10:30

Coffee Break

Wasdell Room, Penbryn

11am

Session 5

Room A14, Hugh Owen Building

Learning Domain Theories via Analogical Transfer, *Matthew Klenk, Kenneth D. Forb*

Induction of qualitative models using discrete Morse theory, *Jure Žabkar, Gregor Jerše, Neža Mramor, Ivan Bratko*

Advanced Experiments for Learning Qualitative Compartment Models, *Wei Pang, George M. Coghill*

12:30

Lunch

Wasdell Room, Penbryn

2pm

Poster Presentations

Room A14, Hugh Owen Building

Behaviour Prioritisation in Fuzzy Qualitative Simulation, *George M. Coghill*

Learning Qualitative Models through Partial Derivatives by Padé, *Jure Žabkar, Ivan Bratko, Janez Demšar*

Provably spurious qualitative simulation predictions that just won't go away, *Nuri Taşdemir, A. C. Cem Say*

Qualitatively Constrained Equation Discovery, *Jure Žabkar, Aleksander Sadikov, Ivan Bratko, Janez Demšar*

Dynamic domain abstraction through meta-diagnosis, *Johan de Kleer*

Knowledge Representation for Fuzzy Model Composition, *Xin Fu, Qiang Shen*

From Whiteboard to Model: A Preliminary Analysis, *Praveen Paritosh, Will Bridewell*

3:30

Coffee break and posters

Wasdell Room, Penbryn

4:30

Tour of Robot Labs

5:30

Depart for Devils Bridge from outside Penbryn Hall (until 11pm)

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21st Annual Workshop on Qualitative Reasoning

Friday 29th June

9am

NaturNet-REDIME Session

Room A14, Hugh Owen Building

Special Feature on the NaturNet-Redime Project on Sustainable Development:

NaturNet-Redime introduction, *Tim Nuttle*

Case studies & Library, *Paul Salles*

Modelling challenges, *Bert Bredeweg*

Tools (particularly model sharing and reuse), *Jochem Liem*

Questions & Discussion

10:30

Coffee Break and posters

Wasdell Room, Penbryn

Posters on NaturNet-REDIME papers:

A Garp3 Model of Environmental Sustainability in the Danube Delta Biosphere Reserve based on Qualitative Reasoning Concept, *Eugenia Cioaca, Bert Bredeweg, Paulo Salles, Tim Nuttle*

Collaborative Conceptual Modeling: Share, Search and Reuse, *Jochem Liem, Anders Bouwer and Bert Bredeweg*

A Garp3 model of environmental sustainability in the River Mesta (Bulgaria), *Elena Nakova, Bert Bredeweg, Paulo Salles, Tim Nuttle*

Integrative qualitative modelling of ecological and socio-economic aspects of river-rehabilitation in England, *Richard Noble, Tim Nuttle, Paulo Salles*

Modelling sustainability in the Riacho Fundo water basin (Brasília, Brazil), *Paulo Salles, Bert Bredeweg, Ana Luiza Rios Caldas, Tim Nuttle*

The riverine landscape Kamp (Austria): an integrative case study for qualitative modeling of sustainable development, *Andreas Zitek, Susanne Muhar, Sabine Preis, Stefan Schmutz*

11:15am

Final session

Room A14, Hugh Owen Building

12 midday

Lunch

Wasdell Room, Penbryn