

WORKSHOP ON PREDICTION ERROR

Topics include:

- **Sensory Information Processing**
- **Prediction Error Dynamics**
- **Predictive Processing**
- **Implementations in Cognitive Robotics**

TUESDAY. 11.02.2020



Institut für Informatik
Adlershof
Humboldt-Universität zu Berlin



Adaptive Systems
Group

Info: bruno.lara@uaem.mx

Prediction Error

Workshop

11.02.2020

We assume agents perform predictions across different modalities. Prediction error is the difference between these predictions and the sensory information coming from the world. In these workshop, we want to explore the reaches of prediction error for different cognitive abilities in artificial and natural agents.

Schedule

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|-------------|--------------------|---|
| 10.00-10.30 | Kim Georgie | The active self |
| 10.30-11.00 | Verena Hafner | Open ended learning |
| 11.00-11.30 | Alejandra Ciria | Controversies on sensory attenuation and enhancement |
| 11.30-11.45 | | Coffe break |
| 11.45-12.15 | Lea Musiolek | Model prediction error as social influence in fish social interaction |
| 12.15-12.45 | Guido Schillaci | Implementations of prediction error dynamics |
| 12.45-14.00 | Markus Scheunemann | human perception of intrinsically motivated autonomy |
| 14.00-15.00 | | Lunch Break |
| 15.00-15.30 | Bruno Lara | Predictive processing in cognitive robotics |
| 15.30-16.00 | Murat Kirtay | Multimodal machine learning architectures for action and object recognition |
| 16.00-16.30 | Heinrich Mellmann | TBA |

Note. The first part of the workshop will take place in the Humboldt Kabinett. The second part in the Erwin-Schrödinger Zentrum. Adlershof.