Selecting the best research applications in Digital Technologies

Professor Peter Gorm Larsen

Institut for Ingeniørvidenskab, Aarhus Universitet

Medlem af DFF/FTP

Finansloven 2018

3.1 Forskning i digitale teknologier (AI mv.)

Der afsættes 80 mio. kr. til digitale teknologier som kunstig intelligens (AI), big data, Internet of Things, it-sikkerhed mv. (FORSK2025) med fokus på kapacitetsopbygning af den danske talentmasse, som er afgørende for at understøtte og udbygge Danmarks position som digitalt foregangsland.

Forskning i digitale teknologier kan blandt andet understøtte *verdensmål 8. Anstændige jobs og økonomisk vækst.*
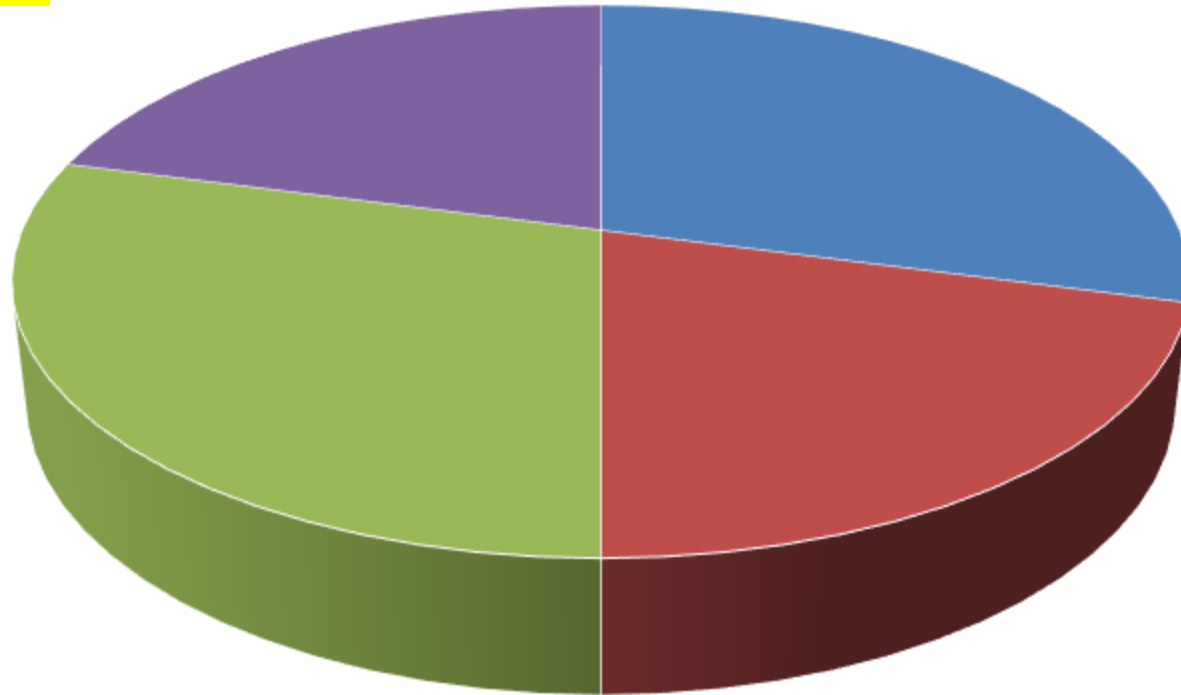
The rest of the evaluation committee

- Professor Marta Kwiatkowska, University of Oxford, UK
- Professor Giuseppe F. Italiano, LUISS University, Italy
- Professor Dexter Kozen, Cornell University, USA
- Professor Michael Mitzenmacher, Harvard University, USA
- Professor Gerd Kortuem, Delft University of Technology, Netherlands
- Professor Liu Weiru, University of Bristol, UK
- Professor Orna Kupferman, Hebrew University, Israel
- Lektor Rickard Sandberg, Stockholm School of Economics, Sweden
- Professor Lars Kai Hansen, Danmarks Tekniske Universitet tidligere FTP
- Professor Lars Birkedal, Aarhus Universitet og medlem af FNU
- Lektor Anne-Marie Søndergaard Christensen, Syddansk Universitet og FKK

General feeling about the applications

- We received 150 applications
- In general of very high scientific quality
- Large variation of digital technology areas
- Many proposals that will influence Denmark future possibilities
- Many other countries invest even more in digital technology research
- Handing out lots of small research grants like this makes lots of sense
- Much more than the planned Pioneer centers

Divisions in subjects of accepted applications

Digital method, theory ■ Climate, sustainability ■ Healthcare, welfare ■ Fairness, trust

Assistant Professor Eva Rotenberg, Dynamic Network Analysis

- Early stage researcher
- Very strong CV in relation to her PhD age
- Methodology from a theoretical perspective
- Robustnes in graph theory
- Dynamically changing graphs

Professor Ole Winther: Few-shot Generative Models

- Very mature researcher
- Both affiliated with KU/Rigshospitalet and DTU
- Enhancing machine learning
- Inspired by human abilities
- Improving recognition is areas that have not been trained
- Potential use with meta-learning in start-up company