

NEUROTECH

Deliverable D2.3: Report 1 on impact of attended industrial events

- Project: NEUROTECH, Grant number 824103
- Report dissemination level: public
- Report target delivery date: project month 18 = April 2020

Summary

NEUROTECH members have attended a number of industry events over the first 18 months of the project, though such events have been curtailed by the coronavirus over the last 2 months of this period. This report summarizes those events.

Introduction

This report covers the results up to month 18 of NEUROTECH activity in Task 2.2, which has the following objectives:

Task 2.2 objectives

- to monitor for industrial events that are relevant for the NEUROTECH community
 - in terms of providing potential application use cases for the technology, or
 - required components for the next developments
 - hardware, algorithmic, theoretical
- to be present at at least two such event per year
 - organising lectures, workshops, special sessions, or a booth
 - contact organisers of the events and send one of the NEUROTECH partners with dissemination material to the event.

Events attended

NEUROTECH partners have been involved in organizing and/or speaking at the following events with an industry audience:

- SC'18, Dallas, USA, Nov 13 2018
 - Steve Furber (UNIMAN) gave invited keynote talk on SpiNNaker
 - Audience: industry & academia
 - Premiere international conference on super-computers
- NICE (Neuro-Inspired Computational Elements) 2019, IBM Albany, NY, USA, March 26-28 2019
 - Steve Furber (UNIMAN) and Johannes Schemmel (UHEI) are on the organizing committee

- Audience: industry & academia
- Major annual international meeting on neuromorphic & related technologies
- SpiNNaker, BrainScaleS & Loihi post-conference hands-on training, March 29 2019
- RETHINK Kickoff Symposium, ETH Zürich, March 27 2019
 - Organised by ETH Zürich, covered AI in drug discovery/pharmaceutical industry with a mixed industry/academic speaker line-up.
 - Audience: Pharma/drug discovery; industry & academic.
 - M Schmuker (UHERTS) gave a talk promoting event-based AI, acknowledged NEUROTECH funding, and engaged with the audience in answering questions about potential use cases in the field.
- ISC'19, Frankfurt, Germany, June 18 2019
 - Workshop on “computational neuroscience and neuromorphic computing”
 - Steve Furber (UNIMAN) gave an invited talk “Many-core neuromorphic computing with SpiNNaker”
 - Audience: Industry & academia
 - Premiere European supercomputing conference
- Annual meeting, European Chemoreception Organisation, Trieste, Italy, Sept 14 2019
 - “Temporal dynamics in Olfaction” symposium
 - Audience: Flavours & Fragrance industry and academics, Neuroscience academics.
 - The symposium, organised by NEUROTECH member M Schmuker, covered how temporal dynamics govern chemical sensing. M Schmuker gave a talk on event-based olfaction, acknowledging NEUROTECH funding.
- NEUROTECH Forum, IMEC, Leuven, November 4th 2019
 - NEUROTECH organized event
 - Audience: industry & academia
- IROS2019, Macau, China, Nov 8th 2019
 - “Towards Cognitive Vehicles: perception, learning and decision making under real-world constraints. Is bio-inspiration helpful?”
 - Workshop organized by Yulia Sandamirskaya (ETHZ/Intel) and BMW group
 - Audience: industry & academia
 - Premiere international robotics conference
 - NEUROTECH highlighted on workshop page together with BWM & Bosch <https://cogvehicles2019.github.io>
- EFES 2019: European Forum for Electronic Components and Systems, Helsinki, Finland, Nov 19–21 2019
 - “Networks and CSA on Neuromophics & Spintronics”
 - Paolo Bortolotti (NEUROTECH partner Thales) presented a poster on NEUROTECH and on the SpintronicFactory to promote the work done and the importance of the topic.
 - Audience: industry & policy makers
 - Opportunity to lobby for more visibility for the field, to show that it can be useful for industry, that big companies such as Thales are betting on it, etc.
- Human Brain Project EBRAINS event, Amsterdam, Feb 14 2020
 - “HBP & Dutch Neuroscience: shaping collaborations”
 - Steve Furber (UNIMAN) gave a talk on the HBP neuromorphic computing platform
 - Audience: Netherlands industry & academia

- First of a series of planned national events promoting the HBP EBRAINS infrastructure for brain science
- Mobile World Congress (MWC), Barcelona, Spain, Feb 24-27 2020
 - SpiNNaker (UNIMAN) and BrainScaleS (UHEI) exhibition presence planned
 - **Event cancelled due to coronavirus**
- NICE (Neuro-Inspired Computational Elements) 2020, Heidelberg, Germany, March 17-19 2020
 - Steve Furber (UNIMAN) and Johannes Schemmel (UHEI) are on the organizing committee
 - Audience: industry & academia
 - Major annual international meeting on neuromorphic & related technologies
 - SpiNNaker and BrainScaleS post-conference training planned, March 20 2020
 - **Event postponed due to coronavirus**
- NEUROTECH satellite event at NICE 2020, Heidelberg, Germany, March 16 2020
 - “Future Application Directions for Neuromorphic Computing Technologies”
 - Organized by UHEI – Johannes Schemmel
 - **Event postponed due to coronavirus**

Conclusion

NEUROTECH members have been active in attending and contributing to the organization of a significant number of events with an industry audience over the first 18 months of the project, although this activity has been curtailed over the last 2 months of this period due to the global coronavirus shut-downs.