

## Topic 5: Productive teaming - Human-machine collaboration in the production environment

### *Session 5.1: Joint cognition*

Article ID: 5.1.131

*Jahn, Katharina; Kriegelstein, Felix; Chuang, Lewis L.; Rey, Günter Daniel:*  
**Building an appropriate level of trust with conversational agents as team partners for learning**

DOI: <https://doi.org/10.22032/dbt.58916>

Article ID: 5.1.132

*Noack, Benjamin; Röhrbein, Florian; Notni, Gunther:*  
**Event-based sensor fusion in human-machine teaming**

DOI: <https://doi.org/10.22032/dbt.58924>

Article ID: 5.1.133

*Mossakowski, Till; Hedblom, Maria; Neuhaus, Fabian; Arevalo Arboleda, Stephanie; Raake, Alexander:*  
**Using the diagrammatic image schema language for joint human-machine cognition**

DOI: <https://doi.org/10.22032/dbt.58917>

Article ID: 5.1.137

*Puricelli, Leonardo; Brandenburg, Stefan; Wendemuth, Andreas; Husung, Stephan; Armbruster, Diana; Meyer, Bertolt; Ragni, Marco:*  
**Going one step further: towards cognitively enhanced problem-solving teaming agents**

DOI: <https://doi.org/10.22032/dbt.58925>

### *Session 5.2: Measurement and information collection*

Article ID: 5.2.070

*Junger, Christina; Notni, Gunther:*  
**Investigations of closed source registration method of depth sensor technologies for human-robot collaboration**

DOI: <https://doi.org/10.22032/dbt.58927>

Article ID: 5.2.127

*Rother, Anne; Notni, Gunther; Hasse, Alexander; Noack, Benjamin; Beyer, Christian; Reißmann, Jan; Zhang, Chen; Ragni, Marco; Arlinghaus, Julia:*  
**Human uncertainty in interaction with a machine: establishing a reference dataset**

DOI: <https://doi.org/10.22032/dbt.58928>

Article ID: 5.2.136

*Treybig, Lukas; Höbel-Müller, Juliane; Werner, Stephan; Nürnberger, Andreas:*  
**Acoustic inter- and intra-room similarity based on room acoustic parameters**

DOI: <https://doi.org/10.22032/dbt.58929>

Article ID: 5.2.142

*Barioul, Rim; Ben Atitallah, Bilel; Kissinger, Thomas; Kanoun, Olfa:*

**Synergy of nanocomposite force myography and optical fiber-based wrist angle sensing for ambiguous sign classification**

DOI: <https://doi.org/10.22032/dbt.58941>

### ***Session 5.3: Information processing***

Article ID: 5.3.063

*Milošević, Maša; Cvetković, Aleksandra; Tomić, Nevena; Petrović, Emina:*

**Outage minimization of energy-harvesting wireless sensor network supported by UAV**

DOI: <https://doi.org/10.22032/dbt.58932>

Article ID: 5.3.128

*Altschaffel, Robert; Dittmann, Jana; Scheliga, Daniel; Seeland, Marco; Mäder, Patrick:*

**Model-based data generation for the evaluation of functional reliability and resilience of distributed machine learning systems against abnormal cases**

DOI: <https://doi.org/10.22032/dbt.58936>

Article ID: 5.3.135

*Hempel, Thorsten; Al-Hamadi, Ayoub:*

**On contextual perception of workers in complex production environments**

DOI: <https://doi.org/10.22032/dbt.58931>

### ***Session 5.4: Operation and evaluation***

Article ID: 5.4.129

*Raake, Alexander; Broll, Wolfgang; Chuang, Lewis; Domahidi, Emese; Wendemuth, Andreas:*

**Cross-timescale experience evaluation framework for productive teaming**

DOI: <https://doi.org/10.22032/dbt.58930>

Article ID: 5.4.138

*Hasse, Alexander; Campanile, Lucio Flavio; Husung, Stephan:*

**An AI-driven design method as basis for teaming**

DOI: <https://doi.org/10.22032/dbt.58937>