ENHANCING BRAIN PLASTICITY FOR NEUROREHABILITATION: COGNITIVE REHABILITATION

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Beside sensory motor-aspects of impairment and disability cognitive impairments are the second most important target for neurorehabilitation. These encompass neuropsychological domains as attention, perception, memory and executive functions.

General rules of learning which are easily applied in the field of motor and sensory rehabilitation are more difficult to apply in the cognitive field.

In the talk the state of evidence base concepts in cognitive rehabilitation will be reviewed and perspectives of use of computer technology and virtual reality will be discussed.

Especially the differences between sensory-motor and cognitive rehabilitation pertinent to the number of available studies will be discussed. Finally perspectives for future research needs will be presented.