

**Human Adaptive Mechatronics: Skill evaluation,
human dynamics identification and skill adaptivity**

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要旨

In development of intelligent human adaptive machines, two important problems are *human skill evaluation* and *human operator modeling*. In particular, in real-life mobile working machines, the tasks and objectives of the operator vary and cannot typically be measured directly. Moreover, the machines typically lack the measurements of important variables. Despite the lacking measurement capability, skill evaluation and human operator modeling is possible. In this talk the following topics are covered: work modeling and skill evaluation in human operated machines, intelligent coaching of human operators, new approaches in human dynamics identification, and skill adaptive systems.

