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Motion Analysis: Action Detection, Recognition and Evaluation based on motion capture data

Fotini Patrona, Anargyros Chatzitofis, Dimitrios Zarpalas, Petros Daras

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**Highlights**

- A novel framework for real-time motion analysis is proposed.
- The devised framework can perform action detection/recognition and evaluation based on motion capture data.
- Automatic and dynamic motion data weighting is introduced, altering joint data significance based on action involvement aiming for more efficient action detection and recognition.
- Action evaluation is performed and, exploiting fuzzy logic, semantic feedback is automatically retrieved proposing ways of action execution improvement.

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