Paper Digest

– Summary of Research for new members in Advanced Robotics & AI Lab

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   This is the summary for the new members of the Advanced Robotics & AI lab to know the key experience, know-how, existing technologies, as well as the lesson learnt from our past research.
   The papers in the publication list cover the topics as follows.

1. the mechanical design [34] [35] [32] [31] [46];

2. modeling and dynamic simulation [9] [26] [43];

3. force and compliant control algorithms [24] [18] [10] [27] [36];

4. balancing, stabilization and locomotion control algorithms [17] [48] [15] [2] [5] [25] [29] [41] [49] [42] [4] [14] [28] [43]

5. walking pattern generation [22] [21] [20] [16] [23] [19] [51] [36];

6. optimisation-/sampling-based motion planning [50] [47] [39] [40];

7. optimal control & optimisation [30] [12] [6] [44];

8. model predictive control [7] [3] [45];

9. statistical learning [1]

10. deep reinforcement learning [8] [37] [38] [33].

   To be continued ......

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