Imposing a Weight Norm Constraint for Neuro-Adaptive Control

Myeongseok Ryu¹, Jiyun Kim², and Kyunghwan Choi¹

¹Department of Mechanical and Robotics Engineering Gwangju Institute of Science and Technology

 2 Al Graduate School Gwangju Institute of Science and Technology

April 22, 2025





- 1 Background and Contributions
 - Introduction to Neuro–Adaptive Control
 - Limitations of Neuro-Adaptive Control
- 2 Proposed Method
 - Weight Norm Constraint
- 3 Numerical Validation
 - Simulation Setup
 - Simulation Results
- 4 Conclusion
 - Conclusion and Future Work





- 1 Background and Contributions
 - Introduction to Neuro–Adaptive Control
 - Limitations of Neuro–Adaptive Control
- 2 Proposed Method
 - Weight Norm Constraint
- 3 Numerical Validation
 - Simulation Setup
 - Simulation Results
- 4 Conclusion
 - Conclusion and Future Work







Background and Contributions

Introduction to Neuro-Adaptive Control

Introduction to Neuro-Adaptive Control

Standard Block

This is a standard block.

Alert Message

This block presents alert message.

An example of typesetting tool

Example: MS Word, LATEX





Imposing a Weight Norm Constraint for Neuro-Adaptive Control Background and Contributions

Limitations of Neuro-Adaptive Control





- 1 Background and Contributions
 - Introduction to Neuro-Adaptive Control
 - Limitations of Neuro—Adaptive Control
- 2 Proposed Method
 - Weight Norm Constraint
- 3 Numerical Validation
 - Simulation Setup
 - Simulation Results
- 4 Conclusion
 - Conclusion and Future Work







Weight Norm Constraint

Weight Norm Constraint

- This is a list item.
- This is another list item.



- 1 Background and Contributions
 - Introduction to Neuro-Adaptive Control
 - Limitations of Neuro–Adaptive Control
- 2 Proposed Method
 - Weight Norm Constraint
- 3 Numerical Validation
 - Simulation Setup
 - Simulation Results
- 4 Conclusion
 - Conclusion and Future Work







Weight Norm Constraint

- This is a list item.
- This is another list item.



Numerical Validation

Simulation Results

Weight Norm Constraint

- This is a list item.
- This is another list item.



- 1 Background and Contributions
 - Introduction to Neuro-Adaptive Control
 - Limitations of Neuro-Adaptive Control
- 2 Proposed Method
 - Weight Norm Constraint
- 3 Numerical Validation
 - Simulation Setup
 - Simulation Results
- 4 Conclusion
 - Conclusion and Future Work







Conclusion and Future Work

Conclusion

- This is a list item.
- This is another list item.



Thank you for your attention!



