

# Outline

<b>1. Introduction</b>	
1.1 Research background	1
1.2 Relative literature	2
<b>2. The basic model</b>	
2.1 Assumptions	4
2.1.1 The utility of author	
2.1.2 The utility of publishers	
2.2 The equilibrium without time-preference and refereeing delay difference	6
2.2.1 The decisions of authors	
2.2.2 The decisions of journals	
2.3 Welfare analysis	11
<b>3. Time preference submission model</b>	
3.1 The equilibrium with time preference	14
3.1.1 The decisions of authors	
3.1.2 The decisions of journals	
3.2 Welfare analysis	23
<b>4. Asymmetric reply submission model</b>	
4.1 Specific assumptions	28
4.2 Equilibrium with Asymmetric reply time	30
4.2.1 The decisions of authors	
4.2.2 The decisions of journals	
4.2.3 Welfare Analysis	41
<b>5. Conclusion and further extensions</b>	
5.1 Conclusion	46
5.2 Further extensions	47

## Reference

## Appendix

## Figure Index

2.1. Author's decision tree with symmetric reply time of publishers	6
3.1. The reaction of authors in sole-convention with time-delay consideration (simultaneously reply time)	15
3.2. The papers selected by each journal (3.a)	18
3.3. The papers selected by each journal (3.b)	19
3.4. The papers selected by each journal (3.c)	19
4.1. Author's decision tree with asymmetric reply time (multiple-submission)	28
4.2. Author's decision tree with asymmetric reply time (sole-submission)	29
4.3. Author's decision tree with asymmetric reply time of publishers	30
4.4. Segments of authors' decisions with asymmetric reply time	33
4.5. The reaction of authors in sole-convention with time-delay consideration (asymmetric reply time)	34
4.6. The papers selected by each journal (4.d.1)	36
4.7. The papers selected by each journal (4.d.2)	36
4.8. The papers selected by each journal (4.e)	37

## Table Index

2.1. The payoffs matrix of publishers of basic model	12
3.1. The expected payoffs matrix of the strategy combination (3.i)	21
3.2. The expected payoffs matrix of the strategy combination (3.ii)	22
3.3. The expected payoffs matrix of the strategy combination (3.iii)	23
4.1. The expected payoffs matrix of the strategy combination (4.i)	38
4.2. The expected payoffs matrix of the strategy combination (4.ii)	39
4.3. The expected payoffs matrix of the strategy combination (4.iii)	40
4.4. The expected payoffs matrix of the strategy combination (4.iv)	40
4.5. The expected payoffs matrix of the strategy combination (4.v)	41
4.6. Equilibrium results of models	45

