

Notes on CPG Class

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Contents

1	Introduction to Panini's Grammar	5
1.1	The Basic Idea	6
1.2	Organisation of the Grammar	6
1.3	Karaka and Vibhakti	6
1.3.1	Karta	6
1.3.2	Karma	6
1.3.3	Karana	6
1.3.4	Apadan	6
1.3.5	Sampradan	6
1.3.6	Adhikaran	6
1.4	Vivaksha - The Speaker's Intention	6
2	Panini's Description of Karakas	6
2.1	Karta	6
2.1.1	Differences from Hindi	6
2.1.2	Differences from Telgu	6
2.1.3	Differences from English	6
2.2	Karma	6
2.2.1	Differences from Hindi	6
2.2.2	Differences from Telgu	6
2.2.3	Differences from English	6
2.3	Karana	6
2.3.1	Differences from Hindi	6
2.3.2	Differences from Telgu	6
2.3.3	Differences from English	6
2.4	Apadan	6
2.4.1	Differences from Hindi	6
2.4.2	Differences from Telgu	6
2.4.3	Differences from English	6
2.5	Sampradan	6
2.5.1	Differences from Hindi	6
2.5.2	Differences from Telgu	6
2.5.3	Differences from English	6
2.6	Adhikaran	6
2.6.1	Differences from Hindi	6
2.6.2	Differences from Telgu	6
2.6.3	Differences from English	6
3	Panini's Description of Cases	6
3.1	1 st Case	6
3.1.1	Differences from Hindi	6
3.1.2	Differences from Telgu	6
3.1.3	Differences from English	6
3.2	2 nd Case	6
3.2.1	Differences from Hindi	6
3.2.2	Differences from Telgu	6
3.2.3	Differences from English	6
3.3	3 rd Case	6
3.3.1	Differences from Hindi	6
3.3.2	Differences from Telgu	6
3.3.3	Differences from English	6
3.4	4 th Case	6
3.4.1	Differences from Hindi	6
3.4.2	Differences from Telgu	6
3.4.3	Differences from English	6
3.5	5 th Case	6
3.5.1	Differences from Hindi	6
3.5.2	Differences from Telgu	6

3.5.3	Differences from English	6
3.6	6 th Case	6
3.6.1	Differences from Hindi	6
3.6.2	Differences from Telgu	6
3.6.3	Differences from English	6
3.7	7 th Case	6
3.7.1	Differences from Hindi	6
3.7.2	Differences from Telgu	6
3.7.3	Differences from English	6
4	Introduction to Bhartrihari's Explanation	7
4.1	Bhartrihari on Grammatical Analysis	7
4.2	The Pramanas and Pratibha	7
4.3	The Sadhana	7
5	Pratibha	7
5.1	Pramanas - Evidence of Pratibha	7
5.2	Qualities of Pratibha	7
5.3	Pratibha and Language	7
6	Vivaksha	7
6.1	The Speaker's Intention	7
6.2	Vivaksha and Pratibha	7
7	Sadhanas	7
7.1	Bhartrihari's Explanation	7
7.2	Karta	7
7.3	Karma	7
7.4	Karana	7
7.5	Sampradan	7
7.6	Apadan	7
7.7	Adhikarana	7
7.8	Sesa	7
8	Modeling Vivaksha	7

Abstract

This notes is written for the Independent Study on Computational Paninian Grammar undertaken by us under the guidance of Prof Dipti Misra. In this, we explore concepts of the paninian framework along with the its cognitive aspects postulated by Bhartrihari. We then proceed to the concept of Vivaksha (विवक्षा) and propose a computational model of it.

1 Introduction to Panini's Grammar

Panini (पाणिनि) was a grammarian who formulated a precise and arguably computational grammar - Ashtadhyayi () for Sanskrit around

- 1.1 The Basic Idea
- 1.2 Organisation of the Grammar
- 1.3 Karaka and Vibhakti
 - 1.3.1 Karta
 - 1.3.2 Karma
 - 1.3.3 Karana
 - 1.3.4 Apadan
 - 1.3.5 Sampradan
 - 1.3.6 Adhikaran
- 1.4 Vivaksha - The Speaker's Intention

2 Panini's Description of Karakas

- 2.1 Karta
 - 2.1.1 Differences from Hindi
 - 2.1.2 Differences from Telgu
 - 2.1.3 Differences from English
- 2.2 Karma
 - 2.2.1 Differences from Hindi
 - 2.2.2 Differences from Telgu
 - 2.2.3 Differences from English
- 2.3 Karana
 - 2.3.1 Differences from Hindi
 - 2.3.2 Differences from Telgu
 - 2.3.3 Differences from English
- 2.4 Apadan
 - 2.4.1 Differences from Hindi
 - 2.4.2 Differences from Telgu
 - 2.4.3 Differences from English
- 2.5 Sampradan
 - 2.5.1 Differences from Hindi
 - 2.5.2 Differences from Telgu
 - 2.5.3 Differences from English
- 2.6 Adhikaran
 - 2.6.1 Differences from Hindi
 - 2.6.2 Differences from Telgu
 - 2.6.3 Differences from English

3 Panini's Description of Cases

- 3.1 1st Case
 - 3.1.1 Differences from Hindi
 - 3.1.2 Differences from Telgu
 - 3.1.3 Differences from English

4 Introduction to Bhartrihari's Explanation

4.1 Bhartrihari on Grammatical Analysis

4.2 The Pramanas and Pratibha

4.3 The Sadhana

5 Pratibha

5.1 Pramanas - Evidence of Pratibha

5.2 Qualities of Pratibha

5.3 Pratibha and Language

6 Vivaksha

6.1 The Speaker's Intention

6.2 Vivaksha and Pratibha

7 Sadhanas

7.1 Bhartrihari's Explanation

7.2 Karta

7.3 Karma

7.4 Karana

7.5 Sampradan

7.6 Apadan

7.7 Adhikarana

7.8 Sesa

8 Modeling Vivaksha