Chapter 1

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# Introduction

These guidelines, written in the style of a submission to J. Phys.: Conf. Ser., show the best layout for your paper using Microsoft Word. If you don’t wish to use the Word template provided, please use the following page setup measurements. Holland [1] introduced the concept of Learning Classifier Systems. Later in the year 1988, a guest editorial was written by Goldberg and Holland [2] which describes the utilization of Genetic Algorithms and Machine Learning. In the same editorial, they have also explained the Genetic algorithms and classifier systems with a significant set of references.

# Section

Several tools are available to describe the learning classifier system. In this chapter, the author would like to describe the MATLAB® Classification Learner App, BigML®, and Microsoft® AzureML®. In this text, the author has used these tools wherever it is applicable to impact the output of the classifier system.

# 1.2.1 Sub-Section

The Classification Learner app of MATLAB® trains models to classify data through a diverse set of classifiers to examine supervised machine learning.

## 1.3.2 Subsection

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Table 6.6 Number of cars in parking lot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **9 a.m.** | **11 a.m.** | **1 p.m.** | **3 p.m.** | **5 p.m.** |
| **Red** | 10 | 2 | 7 | 9 | **N/A** |
| **Blue** | 12 | 12 | 10 | 11 | **N/A** |
| **Green** | 6 | 7 | 4 | 6 | **N/A** |
| **Silver** | 4 | 3 | 4 | 3 | **4** |
| **White** | 14 | 14 | 13 | 14 | **11** |

|  |  |
| --- | --- |
|  |  |
| (a) Original Dataset. | (b) Simplified Dataset. |

Figure 1.1: Sample of Figure (a) 1 classes (b) 2 classes.

# 1.4 Conclusion

Displayed equations should typed on their own line

 (1.1)

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**Acknowledgements**: Authors wishing to acknowledge assistance or encouragement from colleagues, special work by technical staff or financial support from organizations should do so in an unnumbered Acknowledgments section immediately following the last numbered section of the paper.

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***Authored book:*** Woods, D. D. and E. Hollnagel. 2012. *Joint cognitive systems*. Boca Raton: CRC Press/Taylor & Francis.

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***Chapter in multi authored book:*** Wiens, J. A. 2005. Avian community ecology: An iconoclastic view. In

*Perspectives in ornithology*, ed. A. H. Brush, and G. A. Clark, 355–403. Cambridge: Cambridge Univ. Press.

*Note:* In Reference section, when there are more than six authors, first three are listed, followed by et al. In text, first author listed followed by et al.

**Journals:** Terborgh, J. 2009. Preservation of natural diversity. *BioScience* 24:715-22.

***Electronic journal:*** Testa, B., and L. B. Kier. 2013. Emergence and dissolvence in the self-organisation of complex systems. *Entropy* 2, no. 1 (March): 1-25. [http://www.mdpi.org/entropy/papers/e2010001.pdf.](http://www.mdpi.org/entropy/papers/e2010001.pdf)

## Unpublished Documents:

Schwartz, G. J. 2012. Multiwavelength analyses of classical carbon-oxygen novae. PhD diss., Arizona State Univ.

O’Guinn, T. C. 2014. Touching greatness. Paper presented at the annual meeting of the American Psychological Association, New York.

## Online Documents:

Adamic, L. A., and B. A. Huberman. 2006. The nature of markets in the World Wide Web. Working paper, Xerox Palo Alto Research Center. <http://www.parc.xerox.com/istl/groups/iea/www/webmarkets.html>(accessed March 12, 2014).

U.S. Census Bureau. 2013. Health insurance coverage status and type of coverage by sex, race, and Hispanic origin. Health Insurance Historical Table 1. [http://www.census.gov/hhes/hlthins/historic/hihisttl.html.](http://www.census.gov/hhes/hlthins/historic/hihisttl.html)

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