Latex Report Writing and Presentation

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Adding Table

Sensor	**Storage unit**
Tmote	10k RAM and 48k Flash
BTnode	180 Kbyte SRAM, 128 Kbyte Flash ROM, 4 Kbyte EEPROM
CSIRO Fleck	512K external memory
EYES	60 Kbytes of program memory and 4 Kbyte EEPROM
MicaZ	4K RAM 128K Flash
Telos	4K RAM

Table : Illustration of storage units in WSNs.

Adding Columns

Defining document class for presentation. Adding Table of Contents.

- **Control Plane**
  - Control Plane
  - Data Plane
- **Data Plane**
  - Control Plane
  - Data Plane

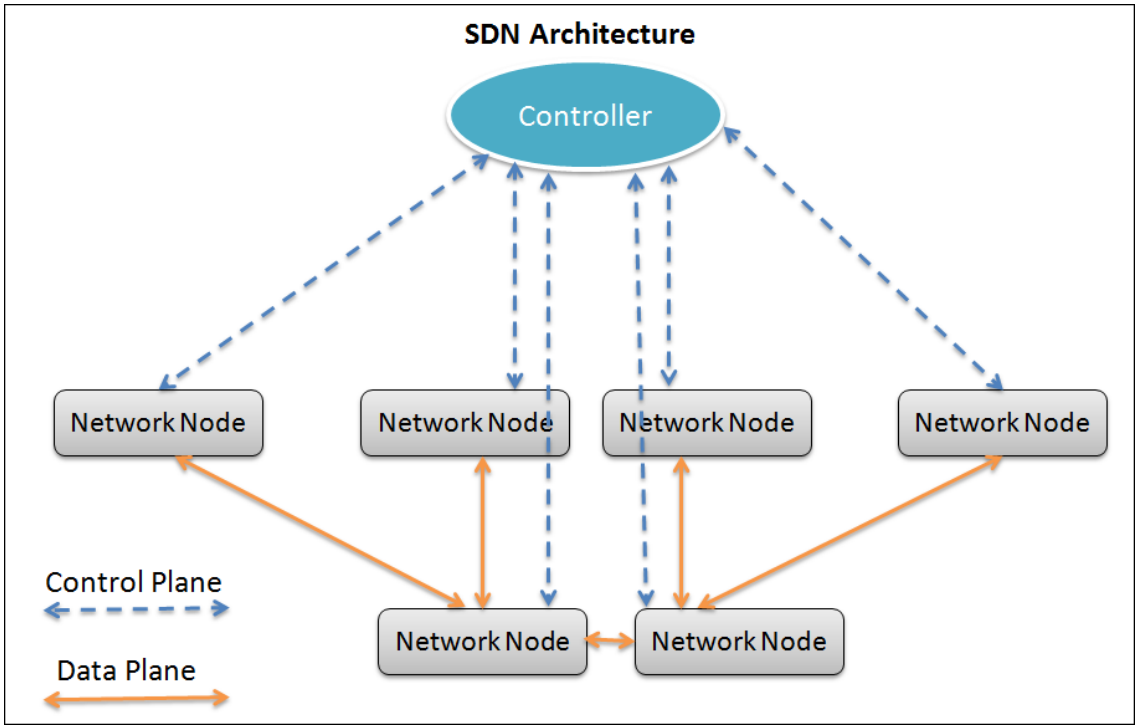


Figure : SDN architecture [1]

Equation Writing

Output of neuron

$$o_i^l = \sigma\left(\sum_j w_{ij}^l o_j^{l-1} \; + \; b_i^l\right), \tag{1}$$

Mean value is given by Eq. 3

$$\mu_i = \left[\frac{\sum_{q=1}^{M} a_i^x(q)}{M}, \frac{\sum_{q=1}^{M} a_i^y(q)}{M}, \frac{\sum_{q=1}^{M} a_i^z(q)}{M}\right]^\top \tag{2}$$

$$= [\mu_i^x, \mu_i^y, \mu_i^z]^\top . \tag{3}$$

writing equation $\mathbf{8^2 \times 9}$

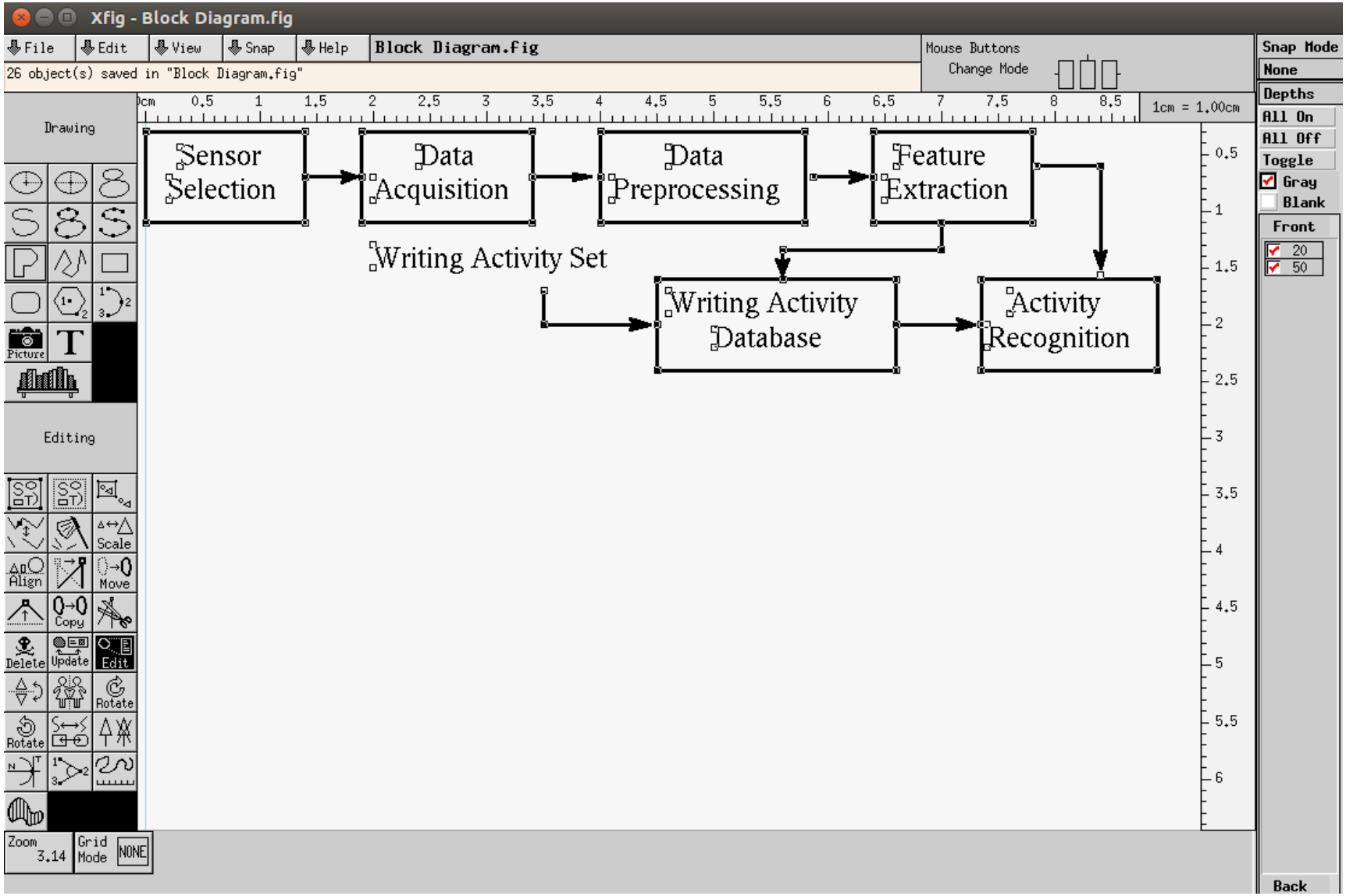
Adding Reference

latex.tex | latex.bib

```
@InProceedings{agrawal2009phonepoint,
  Title                    = {Phonepoint pen: using mobile phones to
  write in air},
  Author                   = {Agrawal, Sandip and Constandache, Ionut
  and Gaonkar, Shravan and Choudhury, Romit Roy},
  Booktitle                = {Proceedings of the 1st ACM workshop on
  Networking, systems, and applications for mobile handhelds},
  Year                     = {2009},
  Organization             = {ACM},
  Pages                    = {1--6}
}

@Article{fischer2005speech,
  Title                    = {Speech-based text entry for mobile
  handheld devices: an analysis of efficacy and error correction
  techniques for server-based solutions},
  Author                   = {Fischer, Arnout RH and Price, Kathleen J
  and Sears, Andrew},
  Journal                  = {International Journal of Human-Computer
  Interaction},
  Year                     = {2005},
  Number                   = {3},
  Pages                    = {279--304},
  Volume                   = {19},
  Publisher                = {Taylor \& Francis}
}
```

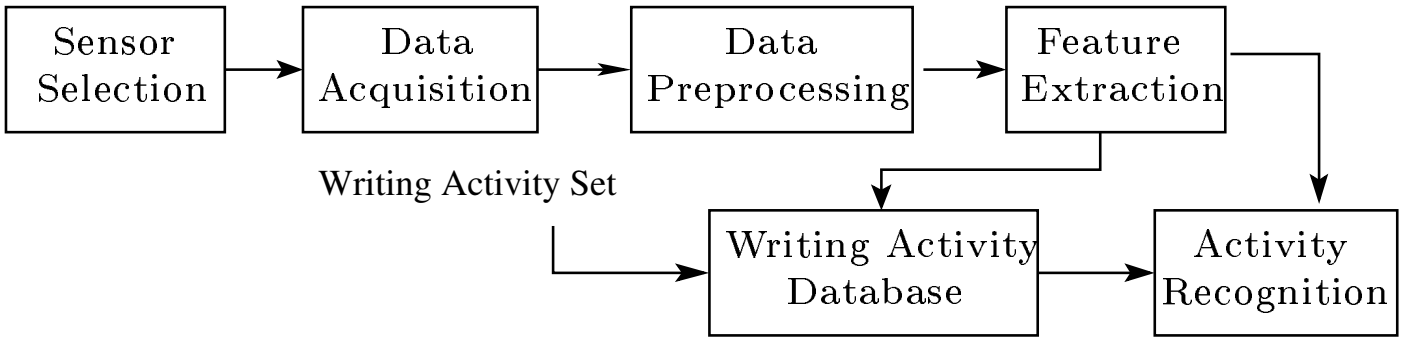
- Phonepoint Pen [1]
- Speech-based text entry for mobile handheld devices: an analysis of efficacy and error correction techniques for server-based solutions [3]
- Flow level State Transitions [4, 6, 2]
- Protocol Independent Instruction Set [5]

Plots using gnuplot



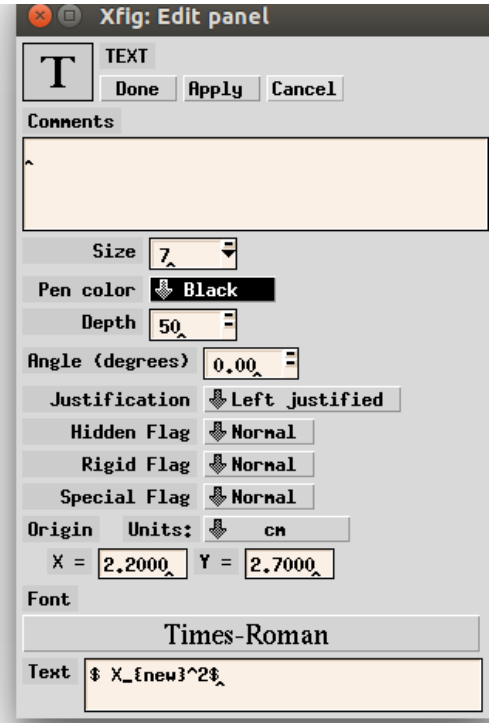
Plots using gnuplot

```
surbhi@surbhi-Inspiron-N5010: ~/Documents/Project/Smartpen
surbhi@surbhi-Inspiron-N5010:~$ cd /home/surbhi/Documents/Project/Smartpen/
surbhi@surbhi-Inspiron-N5010:~/Documents/Project/Smartpen$ fig2eps bd1.fig
```



Plots using gnuplot

$ X_{new}^2$



$$x^2_{new}$$

Plots using gnuplot

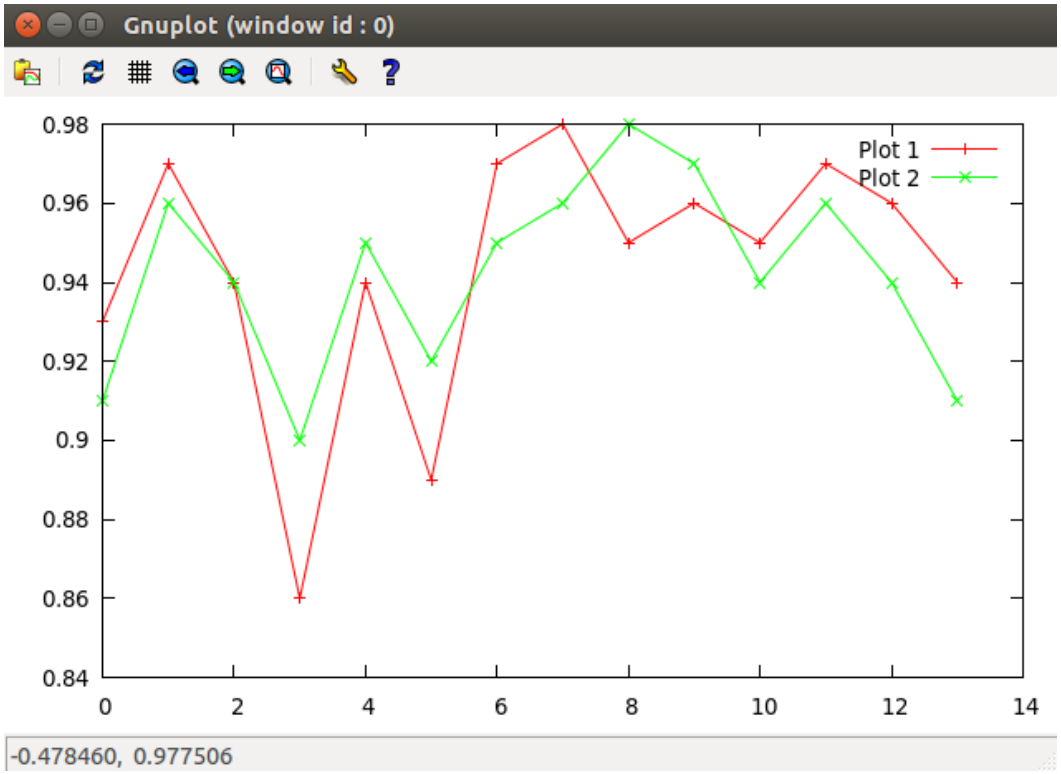
Results.txt

```
0 0.93 0.91 0.87
1 0.97 0.96 0.91
2 0.94 0.94 0.90
3 0.86 0.90 0.84
4 0.94 0.95 0.91
5 0.89 0.92 0.86
6 0.97 0.95 0.92
7 0.98 0.96 0.88
8 0.95 0.98 0.93
9 0.96 0.97 0.92
10 0.95 0.94 0.90
11 0.97 0.96 0.91
12 0.96 0.94 0.90
13 0.94 0.91 0.86
```

surbhi@surbhi-Inspiron-N5010: ~

```
surbhi@surbhi-Inspiron-N5010:~$ gnuplot

        G N U P L O T
        Version 4.6 patchlevel 4    last modified 2013-10-02
        Build System: Linux i686

        Copyright (C) 1986-1993, 1998, 2004, 2007-2013
        Thomas Williams, Colin Kelley and many others

        gnuplot home:     http://www.gnuplot.info
        faq, bugs, etc:   type "help FAQ"
        immediate help:   type "help"  (plot window: hit 'h')

Terminal type set to 'wxt'
gnuplot> plot "Results.txt" using 1:2 with linespoints title 'Plot 1', 'Results.
txt' using 1:3 with linespoints title 'Plot 2'
gnuplot>
```

Plots using gnuplot



Thank You

References I

Agrawal, S., Constandache, I., Gaonkar, S., and Choudhury, R. R.
Phonepoint pen: using mobile phones to write in air.
In *Proceedings of the 1st ACM workshop on Networking, systems, and applications for mobile handhelds* (2009), ACM, pp. 1–6.

Dixit, A., Kogan, K., and Eugster, P.
Composing heterogeneous sdn controllers with flowbricks.
In *2014 IEEE 22nd International Conference on Network Protocols* (2014), IEEE, pp. 287–292.

Fischer, A. R., Price, K. J., and Sears, A.
Speech-based text entry for mobile handheld devices: an analysis of efficacy and error correction techniques for server-based solutions.
International Journal of Human-Computer Interaction 19, 3 (2005), 279–304.

Moshref, M., Bhargava, A., Gupta, A., Yu, M., and Govindan, R.
Flow level state transition as a new switch primitive for sdn.
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Protocol-oblivious forwarding: Unleash the power of sdn through a future-proof forwarding plane.
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Yao, J., Wang, Z., Yin, X., Shiyz, X., and Wu, J.
Formal modeling and systematic black-box testing of sdn data plane.
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