

Schedule Report

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Contents

- 1 Original Plan
- 2 Summary
- 3 Summary
- 4 Plan in Next Two Weeks

Original Plan



Plan A

I borrowed two books on Functional Analysis and Matrix Analysis. I will read the books and settle down my confusions occurred when I read some papers in the area of compressed sensing.

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Plan C

Work hard, keep fit and make progress with all of you in the new semester.

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Rate of Progress 70%



- *Accomplishment 1*

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- I have learned the first chapter of Functional Analysis about metric space and Banach fixed-point theorem.

Definition (**Banach**)

Let (X, d) be a non-empty complete metric space with a contraction mapping $T: X \rightarrow X$. Then T admits a unique fixed-point x^* in X (i.e. $T(x^*) = x^*$).



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- *Accomplishment 2*

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- *Accomplishment 2*

- I have started writing a demo code about laboratory file management system. (Tomcat for server, java for communication, and jsp for website). Now the website can be operated, but some functions still should be fixed. I

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Rate of Progress 70%



- *Accomplishment 3*

Rate of Progress 70%



• Accomplishment 3

- I read an Review on Compressed Sensing. Known some basic knowledge of CS, such as sparse matrix, constraints (incoherence of signal, sparsity), and information access method:
 - ① BP(Basic Pursuit)、MP(Matching Pursuit)、(iterative thresholding methods)
 - ② Based on priori information: BCS(Bayesian Compressed Sensing)、(model based compressed sensing)

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Goal



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- 2 Read an article named Research on Compressed Sensing (written by *Dai Qionghai*, Department of Automation, Tsinghua University, 2011).

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- 2 Read an article named Research on Compressed Sensing (written by *Dai Qionghai*, Department of Automation, Tsinghua University, 2011).
- 3 Write code.

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Acknowledgement

Hello! UWB Lab!