

分布式算法课程延伸阅读¹

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¹这是分布式算法课程推荐大家延伸阅读的文献。这个文献列表会在平时不断更新调整，包括增删条目、修改注释、调整文档的目录结构等。这些文献不是一个充分的覆盖，更像是一些经典文献的例举。

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第一章 建模和模型

[Lam78] 消息传递模型的基本概念。

[Mat89] 逻辑时钟。

[Lam86a, Lam86b] 基础建模。包括atomic/regular/safe register的概念等。

[Mis86] 硬件访问的公理化建模。

[CT96] Failure detector的概念。

第二章 Impossibility Results

[AE14] 不可能性结果的系统讲解书籍。

[FLP85] FLP结果。

第三章 MSG算法

[Lam01] Paxos算法。

[OO14] Raft算法。

第四章 SHM算法

[ABND95] 定义distributed atomic register。

[HW90] 定义linearizability。

[SWPL11] 多写register的regularity的定义。

[Her91] Consensus number的概念。

[HS11] Progress condition概念的系统阐述。

[Lam74] Bakery算法。

第五章 经典系统

[GL12] CAP 定理，由Eric Brewer在2000年提出，此处是12年后Gilbert和Lynch对CAP定理所作的阐释。

[Aba12] PACELC权衡，可以看做是CAP定理的拓展。

[LH89] 分布共享内存系统。

[CBPS10] 涉及复制技术的经典理论、系统的系统阐述。

[CGR07] Google的Paxos实现。

[CDG⁺08] Google的BigTable。

[BBC⁺11] Google的Megastore。

[CDE⁺12] Google的Spanner。

[DHJ⁺07] Amazon的Dynamo。

[LM10] Facebook的Cassandra。

[HKJR10] Yahoo的Zookeeper。

[Bur06] Google的chubby。

[Gel85] 基于tuple space的协同。

第六章 形式化规约与验证

[Bur14] vis-ar框架: Replicated Data Type的declarative的规约框架。

[CG18] vis-ar框架向分布事务isolation level的拓展。

[MSB17] 共识算法的共性提炼与验证。

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