

Synchronous Communication

vs

Asynchronous Communication

SYNC

Real-time Response



SYNC



REST API



Synchronous for Service
(AWS S3)



Synchronous Communication

Simple to simulate
Simple to implement

Works well
Delayed response
in Service API



Dependent for Service
AWS API



ASYNC

- Real-time response
- Dependent on service
- Uncontrolled latency



Dependent on implementation
vs AWS S3 API

Works well
for background response
→ Delayed response



Works well
implementation
(AWS S3)



KAFKA



Simple asynchronous
implementation
(AWS SQS)

Top Async Communication

AW Chickering



Top Async Communication:

On the Move to Meaningful Internet Systems: OTM 2011 Workshops Robert Meersman, Tharam Dillon, Pilar Herrero, 2011-10-30 This volume constitutes the refereed proceedings of nine international workshops EI2N NSF ICE ICSP INBAST ISDE MONET ORM SeDeS SWWS and VADER 2011 held as part of OTM 2011 in Hersonissos on the island of Crete Greece in October 2011 The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions The volume also includes three papers from the On the Move Academy OTMA 2011 and five ODBASE 2011 poster papers Topics of the workshop papers are enterprise integration and semantics information centric engineering interoperability industrial and business applications of semantic Web applications information systems in distributed environments process management in distributed information system development distributed information systems implementation issues and applications industrial applications of fact oriented modeling data warehouse modeling extensions to fact oriented modeling model validation procedures schema transformations and mapping semantic Web and Web semantics ontology development deployment and interoperability data access and efficient computation efficient information processing exchange and knowledge synthesis algorithms mobile and networking technologies for social applications semantic and decision support variability in software architecture and dynamic and adaptive architectures **Best Practices and Strategies for Online Instructors: Insights From Higher Education Online Faculty** Doyle, Lori B., Tarbuton, Tanya M., 2024-11-15 Online higher education is on the rise and experienced instructors can play a pivotal role in supporting this key sector by sharing effective evidence based practices and strategies By mentoring less experienced faculty they can help ensure that online courses are engaging accessible and aligned with high academic standards Their insights are invaluable for building a strong adaptable online education environment that meets diverse student needs and fosters academic success Best Practices and Strategies for Online Instructors Insights From Higher Education Online Faculty serves as a collection of best practices and strategies as described by online faculty working in higher education It discusses challenges specific to teaching in the online classroom and actionable steps for integrating best practices Covering topics such as adult online learners higher education institutions HEIs and virtual environments this book is an excellent resource for higher education faculty educators administrators policymakers and more Typed Lambda Calculi and Applications Pierre-Louis Curien, 2009-06-29 This book constitutes the refereed proceedings of the 9th International Conference on Typed Lambda Calculi and Applications TLCA 2009 held in Brasilia Brazil in July 2008 in conjunction with RTA 2007 the 19th International Conference on Rewriting Techniques and Applications as part of RDP 2009 the 5th International Conference on Rewriting Deduction and Programming The 27 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 53 submissions The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation

types and programming *Programming Languages and Systems* Giuseppe Castagna,2009-03-28 This book constitutes the refereed proceedings of the 18th European Symposium on Programming ESOP 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory and Practice of Software The 26 revised full papers presented together with two abstracts of invited talks were carefully reviewed and selected from 98 full paper submissions The topics addressed are typed functional programming computational effects types for object oriented languages verification security concurrency service oriented computing parallel and concurrent programming US Black Engineer & IT ,1985

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2nd International Symposium on Advanced Research in Asynchronous Circuits and Systems Institute of Electrical and Electronics Engineers, Inc. Staff, 1996-03 Papers from the March 1996 symposium detail the latest knowledge in asynchronous hardware design in sections on high speed design logic synthesis architectural synthesis formal methods novel techniques design automation and measurements low power and system design and logic optimization The

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