

Sync vs Async Communication

Request and wait for a response
Fire and forget with messages/events

@lorey/23

Synchronous



Request-response model

Send a request and wait for some response
Example: API requests

Asynchronous



Fire and Forget model

Send message/event and forget
Example: Event Driven Architecture

Async Communication Pro

F Rizvi



Async Communication Pro:

Automata, Languages and Programming Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, Paul Spirakis, 2010-07-05 Annotation The two volume set LNCS 6198 and LNCS 6199 constitutes the refereed proceedings of the 37th International Colloquium on Automata Languages and Programming ICALP 2010 held in Bordeaux France in July 2010 The 106 revised full papers 60 papers for track A 30 for track B and 16 for track C presented together with 6 invited talks were carefully reviewed and selected from a total of 389 submissions The papers are grouped in three major tracks on algorithms complexity and games on logic semantics automata and theory of programming as well as on foundations of networked computation models algorithms and information management LNCS 6199 contains 46 contributions of track B and C selected from 167 submissions as well as 4 invited talks Data and Computer Communications Gurdeep S. Hura, Mukesh Singhal, 2001-03-28 The protocols and standards for networking are numerous and complex Multivendor internetworking crucial to present day users requires a grasp of these protocols and standards Data and Computer Communications Networking and Internetworking a comprehensive text reference brings clarity to all of the complex issues involved in networking activity providing excellent instruction for students and an indispensable reference for practitioners This systematic work answers a vast array of questions about overall network architecture design protocols and deployment issues It offers a practical thorough treatment of the applied concepts of data and computer communication systems including signaling basics transmission of digital signals and layered architecture The book features in depth discussions of integrated digital networks integrated services digital networks and high speed networks including currently evolving technologies such as ATM switching and their applications in multimedia technology It also presents the state of the art in Internet technology its services and implementations The balance of old and new networking technologies presents an appealing set of topics for both undergraduate students and computer and networking professionals This book presents all seven layers of OSI based networks in great detail covering services functions design issues interfacing and protocols With its introduction to the basic concepts and practical aspects of the field Data and Computer Communications Networking and Internetworking helps you keep up with the rapidly growing and dominating computer networking technology **Business and Professional Communication** Curtis Newbold, Jessie Lynn Richards, 2025-01-07 Business and Professional Communication A Human Centered Approach First Edition prepares students to succeed in today s workplace defined by changing technology a diversifying workforce and an increase in remote and hybrid work Authors Curtis Newbold and Jessie Lynn Richards help students see that business communication is more than just a series of documents meetings and presentations it s a human centered process that requires a holistic understanding of communication across modes and contexts With accessibility and inclusion leading the way Business and Professional Communication encourages students to be more conscientious purposeful and ethical in the way they communicate at work and beyond *Distributed Computing*

Ajay D. Kshemkalyani, Mukesh Singhal, 2011-03-03 Designing distributed computing systems is a complex process requiring a solid understanding of the design problems and the theoretical and practical aspects of their solutions This comprehensive textbook covers the fundamental principles and models underlying the theory algorithms and systems aspects of distributed computing Broad and detailed coverage of the theory is balanced with practical systems related issues such as mutual exclusion deadlock detection authentication and failure recovery Algorithms are carefully selected lucidly presented and described without complex proofs Simple explanations and illustrations are used to elucidate the algorithms Important emerging topics such as peer to peer networks and network security are also considered With vital algorithms numerous illustrations examples and homework problems this textbook is suitable for advanced undergraduate and graduate students of electrical and computer engineering and computer science Practitioners in data networking and sensor networks will also find this a valuable resource Additional resources are available online at www.cambridge.org/9780521876346

Handbook of Process Algebra J.A. Bergstra, A. Ponse, S.A. Smolka, 2001-03-16 Process Algebra is a formal description technique for complex computer systems especially those involving communicating concurrently executing components It is a subject that concurrently touches many topic areas of computer science and discrete math including system design notations logic concurrency theory specification and verification operational semantics algorithms complexity theory and of course algebra This Handbook documents the fate of process algebra since its inception in the late 1970 s to the present It is intended to serve as a reference source for researchers students and system designers and engineers interested in either the theory of process algebra or in learning what process algebra brings to the table as a formal system description and verification technique The Handbook is divided into six parts spanning a total of 19 self contained Chapters The organization is as follows Part 1 consisting of four chapters covers a broad swath of the basic theory of process algebra Part 2 contains two chapters devoted to the sub specialization of process algebra known as finite state processes while the three chapters of Part 3 look at infinite state processes value passing processes and mobile processes in particular Part 4 also three chapters in length explores several extensions to process algebra including real time probability and priority The four chapters of Part 5 examine non interleaving process algebras while Part 6 s three chapters address process algebra tools and applications

Business Process Management Systems James F. Chang, 2016-04-19 With a focus on strategy and implementation James Chang discusses business management practices and the technology that enables them He analyzes the history of process management practices and demonstrates that BPM practices are a synthesis of radical change and continuous change practices The book is relevant to both business and IT professi

Social Media and Civil Society in Japan Muneo Kaigo, 2017-08-09 This book offers an overview of social media usage in Japan and describes its role in society during mid level disruptions by natural disasters Conceived during and after the Great East Japan Earthquake that devastated large portions of the north eastern area of Japan this volume addresses the links between Japanese civil society and the social

media scene using both traditional hypothesis testing social surveys and large scale big data analysis to provide insight into the development of an online community for connecting citizens Considering the connection of civil society organizations citizens and local governments through online communication notably social media and how to promote higher levels of citizen engagement in Japan it offers solutions for a more prepared resilient communication network among citizens in case of another large scale disaster

Product-Focused Software Process Improvement Danilo Caivano,Markku Oivo,Maria Teresa Baldassarre,Giuseppe Visaggio,2011-06-15 This book constitutes the refereed proceedings of the 12 International Conference on Product Focused Software Process Improvement PROFES 2011 held in Torre Canne Italy in June 2011 The 24 revised full papers presented together with the abstracts of 2 keynote addresses were carefully reviewed and selected from 54 submissions The papers are organized in topical sections on agile and lean practices cross model quality improvement global and competitive software development managing diversity product and process measurements product focused software process improvement requirement process improvement and software process improvement

Business Process Management Workshops Johann Eder,Schahram Dustdar,2006-08-29 This book constitutes the refereed proceedings of 6 international workshops held in conjunction with the 4th International Conference on Business Process Management BPM 2006 in Vienna Austria in September 2006 The 40 revised full papers presented were carefully reviewed and selected from a total of 94 overall submissions to six international workshops

Process-Driven Applications with BPMN Volker Stiehl,2014-09-17 How can we optimize differentiating business processes and exploit their full potential Here Volker Stiehl provides answers utilizing the various options that the BPMN Business Process Model and Notation standard offers for planning implementing and monitoring processes The book presents an approach for implementing an architecture for applications that strives to find a balance between development and maintenance costs sustainability scalability and fault tolerance that meets flexibility requirements without becoming inordinately complex itself and that keeps the end application as abstract as possible from the system landscape in which it operates Based on the semantic enhancements found in version 2.0 of the BPMN standard which have made it possible to execute process models his approach exploits BPMN to create and run complete application architectures In this context BPMN is not just used to model the business processes of the application as the B in BPMN might suggest but also to model and execute the integration processes between the systems Throughout the book the software package SAP Process Orchestration is used to illustrate the implementation of the proposed architecture yet all recommendations are intentionally kept generic so that they can be implemented on any other comparable platform as well Software architects IT managers software developers and project managers as well as students of information and business technology will find the book a valuable resource The proposed application architecture offers them a detailed blueprint the principles of which they can use to plan and implement process driven distributed applications

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