

# Sync vs Async Communication

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

@lorenz/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

**Yi-Tong Ma**



## **Async Communication Pro:**

**Artificial Intelligence and Computational Intelligence** Fu Lee Wang, Hepu Deng, Jingsheng Lei, 2010-10-26 The 2010 International Conference on Artificial Intelligence and Computational Intelligence AICI 2010 was held October 23-24, 2010 in Sanya, China. The AICI 2010 received 1,216 submissions from 20 countries and regions. After rigorous reviews, 105 high quality papers were selected for publication in the AICI 2010 proceedings. The acceptance rate was 8%. The aim of AICI 2010 was to bring together researchers working in many different areas of artificial intelligence and computational intelligence to foster the exchange of new ideas and promote international collaborations. In addition to the large number of submitted papers and invited sessions, there were several internationally well-known keynote speakers. On behalf of the Organizing Committee, we thank Hainan Province Institute of Computer and Qiongzhou University for its sponsorship and logistics support. We also thank the members of the Organizing Committee and the Program Committee for their hard work. We are very grateful to the keynote speakers, invited session organizers, session chairs, reviewers, and student helpers. Last but not least, we thank all the authors and participants for their great contributions that made this conference possible.

**Economics, Social Sciences and Information Management** Ford Lumban Gaol, Fonny Hutagalung, 2015-12-29 The 2015 International Congress on Economics, Social Sciences and Information Management ICESIM 2015 held 28-29 March 2015 in Bali, Indonesia, aimed to provide a platform for the sharing of valuable knowledge and experience in the context of changing economics and social settings. Information technology has changed many aspects in our life. Euro-Par'97 Parallel Processing Christian Lengauer, Martin Griebel, Sergei Gorlatch, 2005-11-23 This book constitutes the refereed proceedings of the Third International Euro-Par Conference held in Passau, Germany, in August 1997. The 178 revised papers presented were selected from more than 300 submissions on the basis of 1,101 reviews. The papers are organized in accordance with the conference workshop structure in tracks on support tools and environments, routing and communication, automatic parallelization, parallel and distributed algorithms, programming languages, programming models and methods, numerical algorithms, parallel architectures, HPC applications, scheduling and load balancing, performance evaluation, instruction level parallelism, database systems, symbolic computation, real-time systems, and an ESPRIT workshop. **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 activities. **Official Gazette of the United States Patent and Trademark Office** United States Patent and Trademark Office, 1998 *Readings in Groupware and Computer-Supported Cooperative Work* Ronald M. Baecker, 1993-01-13 This comprehensive introduction to the field represents the best of the published literature on groupware and computer-supported cooperative work (CSCW). The papers were chosen for their

breadth of coverage of the field their clarity of expression and presentation their excellence in terms of technical innovation or behavioral insight their historical significance and their utility as sources for further reading Taken as a whole the papers and their introductions are a complete sourcebook to the field This book will be useful for computer professionals involved in the development or purchase of groupware technology as well as for researchers and managers It should also serve as a valuable text for university courses on CSCW groupware and human computer interaction

**Software Engineering and Environment** Phillip C.-Y. Sheu,2012-12-06 Software Engineering and Environment examines the various aspects of software development describing a number of software life cycle models Twelve in depth chapters discuss the different phases of a software life cycle with an emphasis on the object oriented paradigm In addition to technical models algorithms and programming styles the author also covers several managerial issues key to software project management Featuring an abundance of helpful illustrations this cogent work is an excellent resource for project managers programmers and other computer scientists involved in software production

**PRO ASP 2.0**, FRANCIS,1998 Active Server Pages is part of Microsoft s server based technology It enhances HTML pages for a Web or corporate intranet PC ,1988-07

**Instructional Design: International Perspectives II** Sanne Dijkstra,Franz Schott,Norbert Seel,Robert D. Tennyson,Norbert M. Seel,2014-03-18 Instructional design theory and practice has evolved over the past 30 years from an initial narrow focus on programmed instruction to a multidimensional field of study integrating psychology technology evaluation measurement and management The growth of instructional design ID has occurred because of direct needs problems and goals from society Its application in planning instruction first developed in the United States with the Department of Defense during World War II with the purpose of meeting immediate concerns for effective training of larger numbers of military personnel From the beginning ID has rapidly expanded into applications in industrial and executive training vocational training classroom learning and professional education Although ID has its roots in the U S applications and theoretical growth is an international activity However literature at the international level is still limited to either individual author contributions or collections primarily represented by single countries As a result there is no standard reference source that contains the rich variety of theories and applications to form the international foundation for the field The goal of this two volume set is to establish international foundations for ID theory research and practice within the framework of the two following objectives to identify and define the theoretical research and model foundations for ID and to bridge the gap between ID foundations and application Volume I includes chapters on philosophical and theoretical issues on learning theory and ID models Volume II provides an overview of the state of the art of solving ID problems The contributors offer contrasting points of view which provide a rare opportunity to see the diversity and complexity in the field The editorial committee has selected a wide range of internationally known authors to make presentations in the topic areas of the field

**Data Communications** ,1994-07 **PC Magazine** ,1994-02 *Mini-micro Systems* ,1983 Real-Time Systems Ian

Pyle,1993-08-31 The result of a large research project conducted by a multinational team of practicing systems developers Using an industrial perspective they describe problems encountered in the creation of real time systems Demonstrates the deficiencies of the tools and techniques available along with problems to be overcome Includes actual case studies which provide insights to necessary solutions Tutorial Sol M. Shatz,Jia-Ping Wang,IEEE Computer Society,1989 *Holonic Control for Large Scale Automated Logistic Systems* Cornelis Versteegt,2004 Byte ,1984-04 The Logical Design of Parallel Operating Systems Wolfgang Schröder-Preikschat,1994 *Proceedings* ,1983 Proceedings of the ISMM International Symposium, Microcomputers and Their Applications M. H. Hamza,1987

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