

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 Trending

**Richard Chbeir, Ernesto
Damiani, Schahram Dustdar, Yannis
Manolopoulos, Elio Masciari, Evaggelia
Pitoura, Antonio Rinaldi**

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Trends and Innovations in Information Systems and Technologies Álvaro Rocha, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, Irena Orovic, Fernando Moreira, 2020-05-17 This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies WorldCIST 20 held in Budva Montenegro from April 7 to 10 2020 WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences with and challenges regarding various aspects of modern information systems and technologies The main topics covered are A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications and N Technologies for Biomedical Applications Foundations of Computer Software: Future Trends and Techniques for Development Christine Choppy, Oleg Sokolsky, 2010-04-20 This book presents the thoroughly refereed and revised proceedings of the 15th Monterey Workshop held in Budapest Hungary September 24 26 2008 The theme of the workshop was Foundations of Computer Software Future Trends and Techniques for Development The 13 revised full papers presented at the workshop explore how the foundations and development techniques of computer software could be adapted to address such a challenge Material presented in the papers spans the whole software life cycle starting from specification and analysis design and the choice of architectures large scale real world software development code generation and configuration deployment and evolution **Management of Digital EcoSystems** Richard Chbeir, Ernesto Damiani, Schahram Dustdar, Yannis Manolopoulos, Elio Masciari, Evaggelia Pitoura, Antonio Rinaldi, 2025-07-15 This book constitutes the proceedings of the 16th International Conference on Management of Digital EcoSystems MEDES 2024 held in Naples Italy during November 2024 The 23 full papers and 10 Short papers included in this book were carefully reviewed and selected from 65 submissions They were organized in topical sections as follows Energy and Environment Recommendation Systems Social Networks and Emotion Recognition Medical and Health Issues Cybersecurity and Privacy Data Mining Operations Parallel and Distributed Systems Network Aspects and Applications **Collaborative Technologies and Applications for Interactive Information Design: Emerging Trends in User Experiences** Rummler, Scott, Ng, Kwong Bor, 2009-08-31 This book covers emerging topics in collaboration Web 2.0 and social computing Provided by publisher Designing Online Teaching & Learning Environment: An Innovative Approach Michael A Radin, 2023-09-27 This book first presents the evolution of education from traditional face to face to the current remote and online education and its various iterations The author shares experiences and insights on the most effective teaching techniques in both environments some recent

approaches and highlights where there is need for continued improvement Educators are provided with practical suggestions and examples to aid them in the design promotion and teaching of online courses worldwide Topics include applying student and colleague feedback to improve teaching skills in an online setting benefits of teaching learning and working in an online environment and contrasts between synchronous and asynchronous modes of online instruction among others The ultimate goal is to promote accessible and equitable online education for all regardless of the pandemics or political unrest The reader is invited on a hands on journey to discover the potential of the online educational experience with thought provoking questions to encourage reflection and growth along the way *Recent Trends in Algebraic Development Techniques* ,2001

Wireless Communications Research Trends Tong S. Lee,2007 The scope of this new and important book includes personal portable telephones multimedia devices digital assistants and communicating palmtop computers registration and handoff protocols messaging and communications and computing requirements network control and management for protocols associated with routing and tracking of mobile users location independent numbering plans for movable personal services personal profiles personalised traffic filtering and other database driven aspects of personal communications link access technologies and protocols radio and infrared channel characterisation and other microcell based personal communication systems satellite systems and global personal communications traffic management and performance issues policy issues in spectrum allocation industry structure and technology evolution applications case studies and field experience and intelligent vehicle highway systems *Signal Processing Advances in Wireless and Mobile Communications: Trends in single-user and multi-user systems* Georgios B. Giannakis,2001 This is the second in a two volume set that captures major recent advances in signal processing SP tools as they apply to wireless and mobile communication systems The set brings together contributions by leaders in the field worldwide and covers an exceptionally wide range of technologies and methodologies including noise and interference cancellation modem design mobile Internet services next generation audio video broadcasting cellular telephony and wireless multimedia networks Volume II focuses on single and multi user communication systems Volume II presents valuable new signal processing work on blind synchronization with single and multi sensor arrays space time transmit receive diversity combining systems time varying channel modeling signal separation with constant modulus constraints and parallel factor analysis tools Volume II also presents important advances in multiuser systems notably modern methods for canceling multiuser interference and mitigating multipath effects in CDMA and multicarrier systems at the physical layer as well as signal processing issues at the network layer **Communication Research Trends** ,2005 Communications Trends and Their Impact on TxDOT ITS Deployments ,2008 Proceedings of the Trends in Electronics Conference ,2001 Trends Kōbe Daigaku. Shizen Kagaku Kenkyūka,1999 *Proceedings of the Fourth Workshop on Future Trends of Distributed Computing Systems, September 22-24, 1993, Lisbon, Portugal* ,1993 Proceedings of the 4th Workshop on title held in Lisbon Portugal in September 1993 Sessions are devoted to multimedia

experiments system management multimedia protocols future systems groups and cooperative work fault tolerance design of distributed applications object oriented systems network performance software design and testing real time systems algorithms and protocols distributed network processing specification future networks and operating systems issues No index Annotation copyright by Book News Inc Portland OR **Trends and Applications** ,1976 **Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems, April 14-16, 1992, Taipei, Taiwan** ,1992 Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems Taipei Taiwan April 1992 Papers touch such matters as architecture modelling programming high speed networking software engineering fault tolerant distributed systems and networks multimedia No index Acid **CSCW** ,1998 **Trends in Online Landscape Architecture** Christina von Haaren,2005 Data Communications ,1996 **Technology-mediated Communication** Urs E. Gattiker,1992 No detailed description available for Technology Mediated Communication *Instrumentation & Control Systems* ,1986

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