

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

Framework Async Communication

Christian G. Meyer



Framework Async Communication:

High Performance Computing and Communications Ronald Perrott, 2007-09-17 This book constitutes the refereed proceedings of the Third International Conference on High Performance Computing and Communications HPCC 2007 held in Houston USA September 26 28 2007 The 75 revised full papers presented were carefully reviewed and selected from 272 submissions The papers address all current issues of parallel and distributed systems and high performance computing and communication as there are networking protocols routing and algorithms languages and compilers for HPC parallel and distributed architectures and algorithms embedded systems wireless mobile and pervasive computing Web services and internet computing peer to peer computing grid and cluster computing reliability fault tolerance and security performance evaluation and measurement tools and environments for software development distributed systems and applications database applications and data mining biological molecular computing collaborative and cooperative environments and programming interfaces for parallel systems

Communications Infrastructure, Systems and Applications Rashid Mehmood, Eduardo Cerqueira, Radoslaw Piesiewicz, Imrich Chlamtac, 2009-12-12 The First International ICST Conference on Communications Infrastructure Systems and Applications in Europe EuropeComm 2009 was held August 11 13 2009 in London EuropeComm 2009 brought together decision makers from the EU commission top researchers and industry executives to discuss the directions of communications research and development in Europe The event also attracted academia and industry representatives as well as government officials to discuss the current developments and future trends in technology applications and services in the communications field Organizing this conference was motivated by the fact that the development and deployment of future services will require a common global scale infrastructure and therefore it is important that designers and stakeholders from all the systems stacks come together to discuss these developments Rapidly decreasing costs of computational power storage capacity and communication bandwidth have led to the development of a multitude of applications carrying an increasingly huge amount of traffic on the global networking infrastructure What we have seen is an evolution an infrastructure looking for networked applications has evolved into an infrastructure struggling to meet the social technological and business challenges posed by the plethora of bandwidth hungry emerging applications

[Scala Reactive Programming](#) Rambabu Posa, 2018-02-28 Build fault tolerant robust and distributed applications in Scala Key Features Understand and use the concepts of reactive programming to build distributed systems running on multiple nodes Learn how reactive architecture reduces complexity throughout the development process Get to grips with functional reactive programming and Reactive Microservices Book Description Reactive programming is a scalable fast way to build applications and one that helps us write code that is concise clear and readable It can be used for many purposes such as GUIs robotics music and others and is central to many concurrent systems This book will be your guide to getting started with Reactive programming in Scala You will begin with the fundamental concepts of Reactive programming and gradually move on to

working with asynchronous data streams You will then start building an application using Akka Actors and extend it using the Play framework You will also learn about reactive stream specifications event sourcing techniques and different methods to integrate Akka Streams into the Play Framework This book will also take you one step forward by showing you the advantages of the Lagom framework while working with reactive microservices You will also learn to scale applications using multi node clusters and test secure and deploy your microservices to the cloud By the end of the book you will have gained the knowledge to build robust and distributed systems with Scala and Akka What you will learn Understand the fundamental principles of Reactive and Functional programming Develop applications utilizing features of the Akka framework Explore techniques to integrate Scala Akka and Play together Learn about Reactive Streams with real time use cases Develop Reactive Web Applications with Play Scala Akka and Akka Streams Develop and deploy Reactive microservices using the Lagom framework and ConductR Who this book is for This book is for Scala developers who would like to build fault tolerant scalable distributed systems No knowledge of Reactive programming is required Interactivity in E-Learning: Case Studies and Frameworks Wang, Haomin,2011-12-31 This book provides a comprehensive examination of interactivity combining key perspectives from communication and media studies distributed cognition system affordances user control and social interaction intended for researchers working in the fields of communication and media educational media e learning and instructional technology Provided by publisher **Communication Technologies for Vehicles** Marion Berbineau,Magnus Jonsson,Jean-Marie Bonnin,Soumaya Cherkaoui,MARINA AGUADO,Cristina Rico-Garcia,Hassan Ghannoum,Rashid Mehmood,Alexey Vinel,2013-12-11 This book constitutes the joint refereed proceedings of the 5th International Workshop on Communication Technologies for Vehicles Trains Nets4Cars 2013 and Nets4Trains 2013 held in Vilnius Lithuania in May 2013 The 12 full papers of the road track and 5 full papers of the rail track presented together with 3 invited talks were carefully reviewed and selected from 24 submissions They address topics such as intra vehicle inter vehicle and vehicle to infrastructure communications protocols and standards mobility and traffic models models methodologies and techniques testing and applications **Human Language Technologies** Inguna Skadina,Andrejs Vasiljevs,2010 This book contains papers from the Fourth International Conference on Human Language Technologies the Baltic Perspective Baltic HLT 2010 held in Riga in October 2010 This conference is the latest in a series which provides a forum for sharing recent advances in human language processing and promotes cooperation between the computer science and linguistics communities of the Baltic countries and the rest of the world Bringing together scientists developers providers and users the conference is an opportunity to exchange information discuss problems find new synergies and promote i SOFSEM 2009: Theory and Practice of Computer Science Mogens Nielsen,Antonin Kucera,Peter Bro Miltersen,Catuscia Palamidessi,Petr Tuma,Frank Valencia,2009-01-23 This book constitutes the refereed proceedings of the 35th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2009 held in pindleruv Ml n Czech Republic in January 2009 The 49 revised full

papers presented together with 9 invited contributions were carefully reviewed and selected from 132 submissions SOFSEM 2009 was organized around the following four tracks Foundations of Computer Science Theory and Practice of Software Services Game Theoretic Aspects of E commerce and Techniques and Tools for Formal Verification **Principles of Distributed Systems** Chenyang Lu,Toshimitsu Masuzawa,Mohamed Mosbah,2010 Annotation Constituting the refereed proceedings of the 14th International Conference on Principles of Distributed Systems OPODIS 2010 held in Tozeur Tunisia in December 2010 this volume contains 32 full papers on topics discussed at the conference **Distributed Computing and Artificial Intelligence, 14th International Conference** Sigeru Omatu,Sara Rodríguez,Gabriel Villarrubia,Pedro Faria,Paweł Sitek,Javier Prieto,2017-06-19 The 14th International Symposium on Distributed Computing and Artificial Intelligence 2017 DCAI 2017 provided a forum for presenting the application of innovative techniques to study and solve complex problems The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to advancing the development of systems that can meet the ever growing demands of today s society The book brings together past experience current work and promising future trends in distributed computing artificial intelligence and their applications to efficiently solve real world problems It combines contributions in well established and evolving areas of research including the content of the DCAI 17 Special Sessions which focused on multi disciplinary and transversal aspects such as AI driven methods for multimodal networks and processes modeling and secure management towards smart buildings and smart grids The symposium was jointly organized by the Polytechnic of Porto the Osaka Institute of Technology and the University of Salamanca The latest event was held in Porto Portugal from 21st to 23rd June 2017 *Software Architecture* Ilias Gerostathopoulos,Grace Lewis,Thais Batista,Tomáš Bureš,2022-09-08 This book constitutes the refereed proceedings of the 16th International Conference on Software Architecture ECSA 2022 held in Prague in September 2022 The 9 full papers and 6 short papers were carefully selected from 47 submissions In the Research Track 11 full papers presented together with 5 short papers were carefully reviewed and selected from 58 submissions The papers are organized in topical sections as follows components APIs and interface management architecting for data driven systems microservices and middleware architecture modeling design and decision making architecture reconstruction and recovery

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