

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

C Cleary



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 comm sion top researchers and industry executives to discuss the directions of communi tions research and development in Europe The event also attracted academia and industry representatives as well as government officials to discuss the current dev opments and future trends in technology applications and services in the communi tions field Organizing this conference was motivated by the fact that the development and ployment 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 compu tional power storage capacity and communication bandwidth have led to the dev opment 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 inf structure looking for networked applications has evolved into an infrastructure str gling to meet the social technological and business challenges posed by the plethora of bandwidth hungry emerging 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

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

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

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

Advances in Swarm Intelligence Ying Tan,Yuhui Shi,Wenjian Luo,2023-07-07 This two volume set LNCS 13968 and 13969 constitutes the proceedings of the 14th International Conference on Advances in Swarm Intelligence ICSI 2023 which took place in Shenzhen China China in July 2023 The theme of this year s conference was Serving Life with Swarm Intelligence The 81 full papers presented were carefully reviewed and selected from 170

submissions The papers are organized into 12 cohesive sections covering major topics of swarm intelligence research and its development and applications The papers of the second part cover topics such as Swarm Robotics and UAV Machine Learning Data Mining Routing and Scheduling Problems Stock Prediction and Portfolio Optimization ICSI Optimization Competition

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

Advanced RabbitMQ: Comprehensive Messaging and Integration Frameworks Adam Jones, 2025-01-03 Advanced RabbitMQ Comprehensive Messaging and Integration Frameworks is an invaluable resource for anyone aiming to master the capabilities of RabbitMQ the premier open source message broker This extensive guide covers the essentials of messaging systems and navigates through sophisticated topics like performance optimization and seamless system integration Whether you re starting out with RabbitMQ or an experienced developer eager to enhance and extend your messaging frameworks this book offers deep insights and practical strategies across diverse applications Explore the intricate architecture of RabbitMQ gain in depth understanding of queues exchanges and routing and uncover robust patterns for message publishing and consumption Learn to secure optimize and scale your RabbitMQ configurations efficiently monitor system health and integrate with a wide array of technologies including cloud environments and containerization platforms Featuring real world examples and expert insights Advanced RabbitMQ is your comprehensive guide to unlocking the full potential of RabbitMQ boosting the performance reliability and scalability of your messaging systems

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

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