Sync vs Async Communication

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

ghoyneyl23

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

Advanced Async Communication

Terry C. Jones

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Recent Advances in the Message Passing Interface Claudia Blaas-Schenner, Christoph Niethammer, Tobias Haas, 2024-09-24 This volume LNCS constitutes the refereed proceedings of 31st European MPI Users Group Meeting EuroMPI 2024 held in Perth WA Australia during September 25 27 2024 The 8 full papers presented here were carefully reviewed and selected from 19 submissions These papers have been categorized under the following topical sections Compile time Correctness checks and optimization Limitations and Extensions for GPGPUs in MPI Improvements for MPI and MPI Ecosystem Advanced Methodologies and Technologies in Government and Society Khosrow-Pour, D.B.A., Mehdi, 2018-11-02 Governments must continuously update policies laws and legislation as the world continues to rapidly evolve due to technologies and changing cultural perspectives To streamline policy creation and implementation governments seek new and efficient methods to ensure their citizens and communities safety while also encouraging citizen participation Advanced Methodologies and Technologies in Government and Society provides research on emerging methodologies in effective governing including sections on public sector management and socioeconomic development While highlighting the challenges facing government officials and law enforcement such as crisis response and natural disaster management this book shows how technology use can make those areas of government more efficient and improve preventative measures This book is an ideal resource for law enforcement government officials and agencies policymakers

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