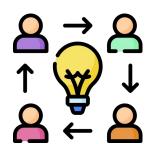
# CSE 408 Project Mock UI

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## Modules

- Literature Review
- Project Management
- Publishing
- Paper Reviewer









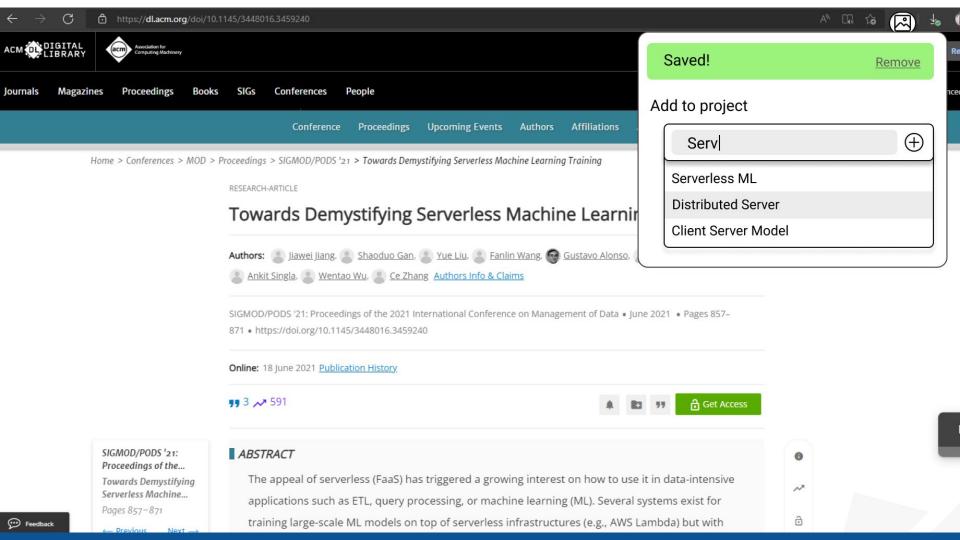
# Literature Review

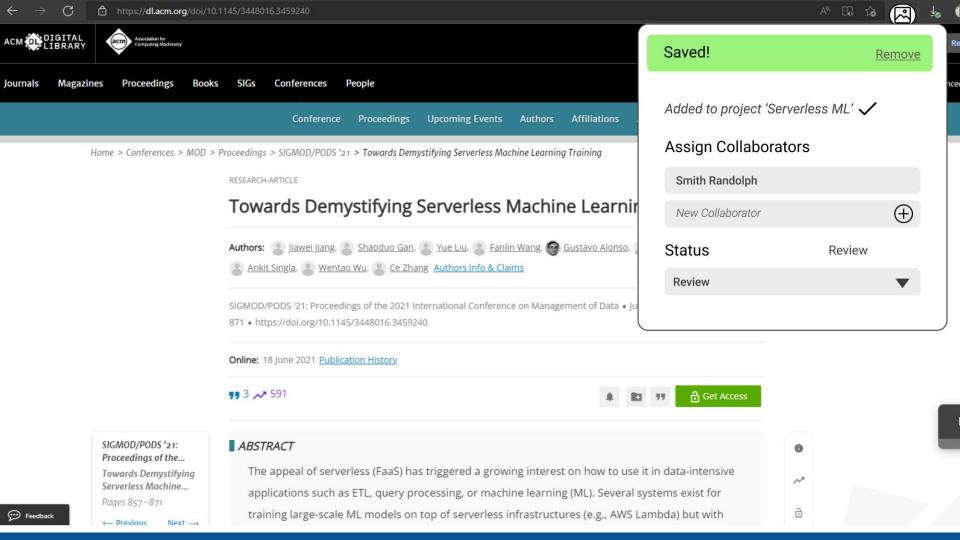
## Literature Review



# Create Paper Collections

- Save paper links with one click (browser extension)
- Build paper collections under a project





#### **Quick Access**

Home

Tasks

Uncategorized

#### **Project**

Choose Project...

Papers

Tasks

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### Unsorted Papers



#### Shuffling, Fast and Slow: Scalable Analytics on Serverless Infrastructure

Serverless computing is poised to fulfill the long-held promise of transparent elasticity and millisecond-level pricing. To achieve this goal, service providers impose a ...

Dec 12, 2021

NSDI '19

Paper #1





#### Shuffling, Fast and Slow: Scalable Analytics on Serverless Infrastructure

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Dec 12, 2021

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Paper #1





#### Shuffling, Fast and Slow: Scalable Analytics on Serverless Infrastructure

Serverless computing is poised to fulfill the long-held promise of transparent elasticity and millisecond-level pricing. To achieve this goal, service providers impose a ...

## Literature Review

# **Knowledge Sharing**



- Create paper **summaries**
- Make summary **public** for others
- Easy to revisit and refresh content
- Read **recommended** papers

Basic Notes Relevant

#### Jiffy: elastic far-memory for stateful serverless analytics

Abstract

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Stateful serverless analytics can be enabled using a remote memory system for inter-task communication, and for storing and exchanging intermediate data. However, existing systems allocate memory resources at job granularity---jobs specify their memory demands at the time of the submission; and, the system allocates memory equal to the job's demand for the entirety of its lifetime. This leads to resource underutilization and/or performance degradation when ... See more

Conference

Status

Assigned

Date Added

**NSDI 2020** 

To Read ∨

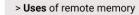




Jun 9, 2022

Notes

Private



- 1. Inter-task communication
- 2. Storing and exchanging intermediate data
- > Problems

Ratio of peak to average storage usage for a job can vary a lot during execution

- > Effects
  - 1. Resource underutilization provisioning for peak

Most of the time resources are unused

2. Performance degradation - provisioning for average

Will take a non-trivial amount of time during storage extension

Edit

Copy

Tasks

Read Paper



Run Source Code



New Task ...



Actions



Archive



Delete

Notes Relevant Basic Public Notes "Jiffy: elastic far-memory for stateful serverless analytics" "Stateful serverless analytics can be enabled using a remote memory system for inter-task communication, and for storing and exchanging intermediate data. However, existing systems allocate memory resources at job granularity" Stateful serverless analytics can be enabled using a remote memory system for inter-task communication, and for storing and exchanging intermediate data. However, existing systems allocate memory resources at job granularity--- This leads to resource underutilization and/or performance degradation when ... See more Author: Smith, Yang Last Updated: Dec 12, 2021 "Stateful serverless analytics can be enabled using a remote memory system for inter-task communication, and for storing and exchanging intermediate data. However, existing systems allocate memory resources at job granularity" Stateful serverless analytics can be enabled using a remote memory system for inter-task communication, and for storing and exchanging intermediate data.

However, existing systems allocate memory resources at job granularity--- This leads to resource underutilization and/or performance degradation when ... See

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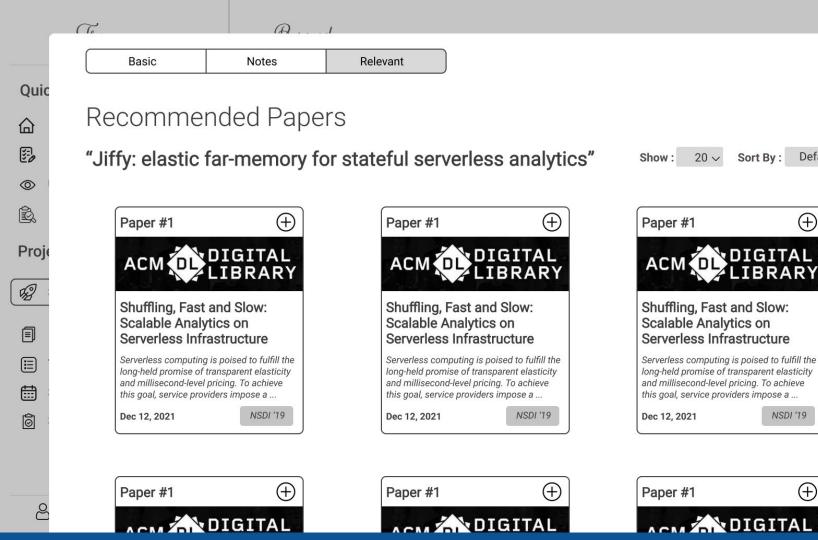
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Proje

more

Author: Smith, Yang



Default ~

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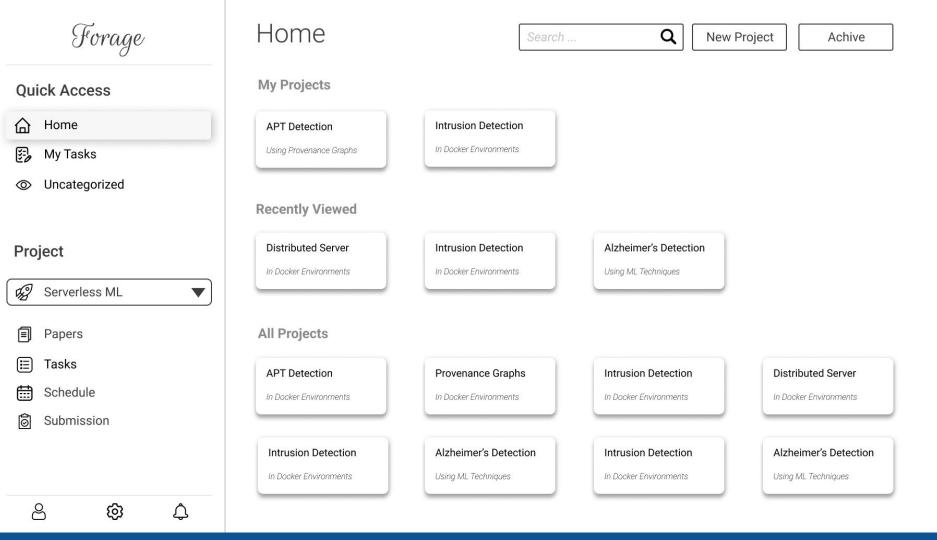
# Project Management

## Project Management



### Collaboration

- Start **new projects** for to explore new topics
- Share paper collections with collaborators

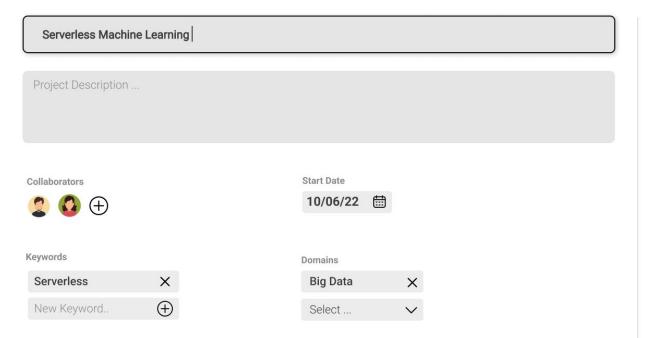




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### New Project



Create

Cancel

M

#### **Quick Access**

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#### **Project**

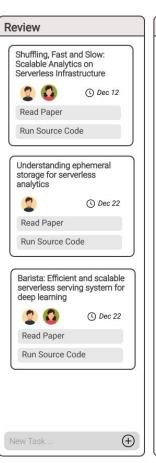


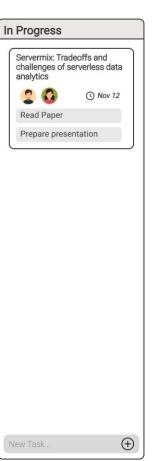
- Papers
- Tasks
- Schedule
- Submission





### Papers







New List ...

## Project Management

## Task Lists



- Create and assign tasks
- Supervisor can view and manage all tasks for the project
- Kanban board to track progress for papers

Basic Notes Relevant

#### Jiffy: elastic far-memory for stateful serverless analytics

Abstract

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Date Added

**NSDI 2020** 

To Read ∨

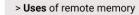




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Edit

Copy

Tasks

Read Paper



Run Source Code



New Task ...



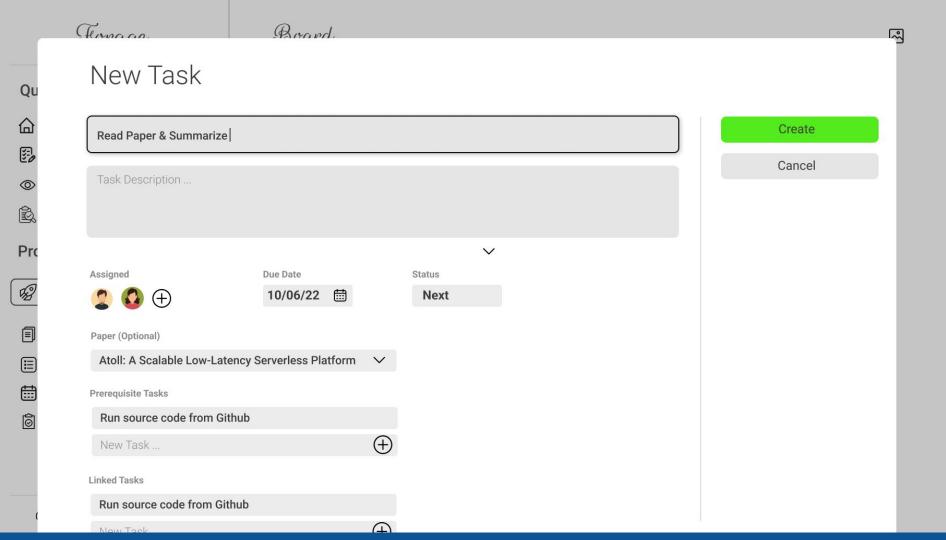
Actions



Archive



Delete



#### **Quick Access**

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#### **Project**

Serverless ML

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## My Tasks



Task Name	Paper	Status	Project	Options
Overview paper	Shuffling, Fast and Slow	In Progress	Serverless ML	면 은 閱 値
Overview paper	Atoll: A Scalable Low-Lat	In Progress	Serverless ML	면 8 🗒 🗓
Run Github repository	Speedo: Fast dispatch	In Progress	Caching System	면 <
Initial System Design		Planning	Caching System	면 은 閱 値
Run Github repository	Shuffling, Fast and Slow	Planning	Caching System	면 은 閱 値
Setup Evaluation Metrics		In Progress	Caching System	면 은 閱 Ü
Overview paper	Shuffling, Fast and Slow	In Progress	Caching System	면 은







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#### **Project**

Serverless ML

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### **Project Tasks**







July 04 July 03 Jun 30 10 days left 13 days left 14 days left

Finish First Draft Submit Paper Pre-print

Conference: NSDI (Network ...

Task Name	Paper	Assigned	Status	Due
Overview paper	Shuffling, Fast and Slow	•	In Progress	Jun 21
Overview paper	Atoll: A Scalable Low-Lat		In Progress	Jun 21
Overview paper	ServerMore: Opportunis		Next	Jun 24
Run Github repository	Speedo: Fast dispatch	<b>Q Q</b>	In Progress	Jun 21
Initial System Design			Planning	Jun 21
Run Github repository	Shuffling, Fast and Slow		Planning	Jun 21
Setup Evaluation Metrics		2	In Progress	Jun 21
Overview paper	Shuffling, Fast and Slow	•	In Progress	Jun 21









# Publishing

## Publishing





- **General platform** for entire submission process
- Suggest to user potential conference/journals

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#### Submission

**Current Submission Timeline** 



#### Aug 2

Networking System Design & Implementation (NSDI)







#### July 13

IEEE International Conference on Cloud Computing (CLOUD) Abstract Submission

Registration 🗸

Abstract 🗸



#### Aug 28

International Conference on Management of Data (SIGMOD)

Abstract Submission

Registration 🗸 Abstract

Suggestions

Aug 15 (Conflict with SIGMOD)

IEEE International Conference on Cloud Computing (CLOUD) Schedule Register

Save



#### Sept 12

Big Data Research

Register Save Schedule





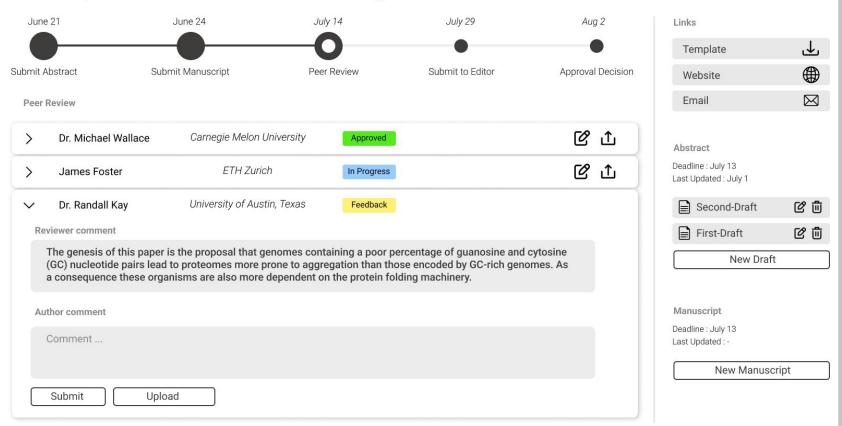








### Computer Vision Pattern Recognition '22



# Publishing

# **Publication Scheduling**



- Schedule generated based on chosen conferences
- Modify schedule to avoid overlaps

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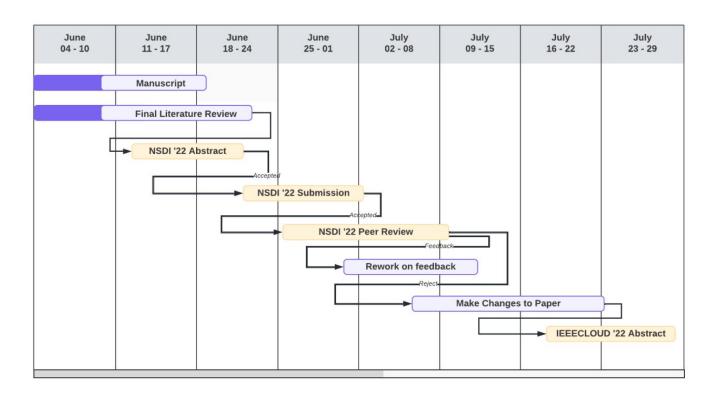




### Schedule

Filter Conference, Work ∨ Add Deadline  $\oplus$ 





# Reviewer

## Reviewer



# Reviewer Dashboard

- Ongoing **reviews** from different conferences
- Feedback to authors
- **Submit** to editor finally
- Get requests from different conferences

#### **Quick Access**

My Tasks

Uncategorized



#### Project



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### Reviews

Assigned	Proposed			1=
Venue	Paper	Status	Options	
CVPR'22	Shuffling, Fast and Slow	Pending	<b>૯</b> ⊘ ≅	
CVPR'22	Atoll: A Scalable Low-Lat	Pending	ଅ ⊘ ≅	
NDSS'22	Speedo: Fast dispatch	Feedback	৫ ⊘ ≅	
NDSS'22	Speedo: Fast dispatch	In Progress	<b>®</b> ⊗ \$≅	







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#### **Project**

Serverless ML

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**Tasks** 

Schedule

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Submission



Assigned Proposed

Venue Paper Options CVPR'22 Reject X Mail  $\bowtie$ Shuffling, Fast and Slow ... Accept 🗸 CVPR'22 Atoll: A Scalable Low-Lat ... Accept 🗸 Reject X Mail  $\bowtie$ CVPR'22 Atoll: A Scalable Low-Lat ... Accept 🗸 Reject X Mail  $\bowtie$ 







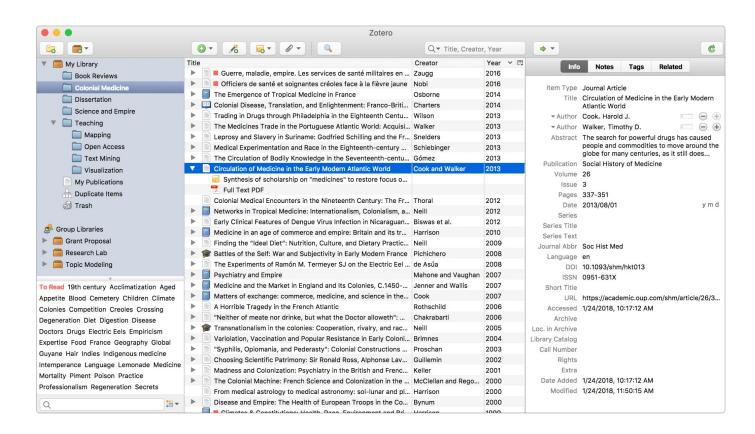
# Future Plans

- Bibliography Extraction
- Experiment Result Tracker
- Implementation Planner

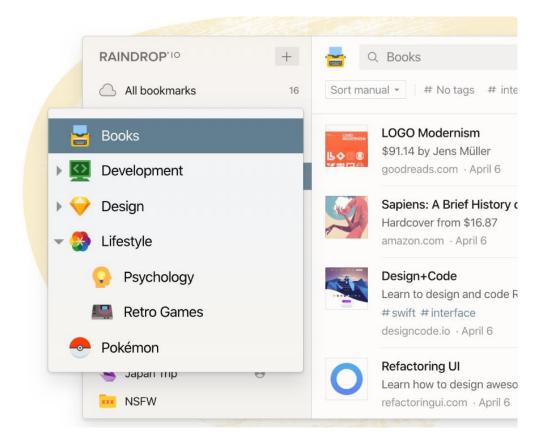
## Thank You

# Appendix

## Zotero



## Raindrop



## WikiCFP



WikiCFP is a <u>semantic wiki</u> for Calls For Papers in science and technology fields. There are more than <u>100,000 CFPs</u> on WikiCFP. Over 100,000 researchers use WikiCFP each month.

Popular Catego	IICS
Category	CFPs
computer science	7024
machine learning	4089
artificial intelligence	6419
NLP	1695

Denular Categories

Popular CFPs		
Event	Users	
ICDM 2022	94	
MLDM 2023	61	
ICMLA 2022	52	
WSDM 2023	22	
EMNLP 2022	39	

Popular I	ists
Owner	CFPs
hrsma2i	3
sora	16
davfof	7
come4acl	2
kandaraj	74

#### Authors

- + Build my CFP list in minutes.
- + Search and sort by title, category, location and year.
- + Browse with graphical timeline.
- + Subscribe to RSS of lists and various categories.
- + Get email and iCal reminders.

#### Organizers

- + Present CFPs to thousands of researchers.
- + Broadcast CFPs to Twitter and Facebook.
- + Push CFPs to targeted RSS subscribers.
- + Check numbers of views and users following my CFPs.
- + Update CFP information timely.

3402

	Most Recen	t Calls For Papers	Ac	ld to My List
Event	When	Where	Deadline	
ACM SIGEnergy Workshop on Energy, Blockchain & Distributed Ledger Technology				
ACM EnergyDLT 2022	Jun 28, 2022 - Jun 28, 2022	Online	TBD	
ENT ATCOM 2022	EAI AICON 2022 - 4th EAI International Conference on Artificial Intelligence for Communications and Networks			
EAI AICON 2022	Nov 30, 2022 - Dec 1, 2022	Hiroshima, Japan	Jun 30, 2022	
	EAI BlockTEA 2022 - 2nd EAI Internati	onal Conference on Blockchain Te	chnology and Emerging Applications	

security