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GECON2022 - The First Hybrid edition of GECON
19th International Conference on the Economics of Grids, Clouds, Systems & Services

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GECON 2022 will be a hybrid conference that will run fully in-person and fully virtually. The conference is designed and meant to be a hybrid conference to take advantage of the best that the two modalities can offer.

Extended Deadlines:
  Full, short papers: June 30th, 2022
  Poster and new ideas papers: June 30th, 2022

GECON 2022 builds upon the very successful tradition of the conference previous editions since 2003. GECON solicits contributions that are interdisciplinary, combining business and economic aspects with engineering and computer science related themes.

Publication and Submission Guidelines for Papers

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Full papers and short papers (work-in-progress papers) shall be submitted using the Springer LNCS format. Submitted full papers should not exceed 12 pages and WIP papers should not exceed 8 pages (including references and appendices). For further details, visit the GECON 2022 web page.

Paper submissions are managed through EasyChair at https://easychair.org/conferences/?conf=gecon2022.

The proceedings will be published by Springer LNCS.

Extended versions of up to 10 accepted papers in the Computer Science field will be invited for publication in a special issue of the elsevier Journal of Future Generation Computing Systems. The process for the special issue will start right after the celebration of the 19th edition of GECON 2022, whose extended deadline is 30 June 2022. Participation in the conference is an ideal opportunity to receive feedback from the GECON community.

Topics of Interest
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GECON encourages the submission of papers, which combine at least one economic/legal area and one technology area. GECON list of areas includes but is not limited to:

-Economics-

- Trustworthiness of services
- Ecosystem economics
- Incentive design, strategic behavior & game theory
- Market mechanisms, auctions models, and bidding languages
- Economic efficiency
- Techno-economic analysis and modeling
- Pricing schemes and revenue models
- Preemptible computing
- Metering, accounting, and billing
- Cost-benefit analysis
- Automated trading and bidding support tools
- Trust, reputation, security, and risk management
- Performance monitoring, optimization, and prediction
- Economics of Open Data
- Trustworthiness and Assurances for Quality of Data
- Economic impact of distributed storage solutions
- Energy efficiency
- Sustainability
- Business models and strategies
- Decision support
- Ecosystems

-Law and Legal Aspects-

- Standardization, interoperability, and legal aspects
- Service level Agreements (SLAs)
- Negotiation, monitoring, and enforcement
- Governance of ecosystems
- Privacy

-Clouds, Grids, Systems and Services-
IaaS, SaaS, PaaS and Federation of resources
Vertical scaling, burstable computing, vertical elasticity
Resource management: allocation, sharing, and scheduling
Capacity planning
Virtualization and containers
Service science, management and engineering (SSME)
Software engineering
Security

-Applications and Technologies Transforming the Economy-
Smart grids, smart cities, and smart buildings
Energy-aware infrastructures and services
Fog, edge, cloud computing
Micro-services, serverless computing
AI-enabled computing continuum from Cloud to Edge
Internet-of-Things
Blockchains
Community networks
Social networks
Social computing
Shared public infrastructures for knowledge exchange:
(e.g. IPFS, Origin Trail, Decentralized Knowledge Graphs)
Big data
Reports on industry test-beds and operational markets
Data stream ingestion and complex event processing
Open source

Keynote Speakers
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- Ittay Eyal, Technion, Israel Institute of Technology
- Elisabette Di Nitto, Politecnico de Milano
- Ian Taylor, SIMBA Chain

Tutorial: “Serverless Computing: State of the Art
and Research Challenges” (Karim Djemame)
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Serverless computing is revolutionizing cloud application development as it offers the ability to create modular, highly-scalable, fault-tolerant applications. The serverless architecture has seen widespread adoption from tech industry giants such as Amazon, Google and as well as the public domain, with open-source projects such as Apache OpenWhisk, Fission and OpenFaaS. This tutorial will present the state-of-the-art in serverless computing research, and provide useful insights into the main challenges that motivate researchers to work on this topic. It will also identify research gaps for future research.

Conference Organization
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Orna Agmon Ben-Yehuda (University of Haifa, Israel)
Jorn Altmann (Seoul National University, South-Korea)
Jose Angel Banares (Zaragoza University, Spain)
Karim Djemame (University of Leeds, UK)
Maurizio Naldi (Libera Università Maria SS. Assunta (LUMSA), Italy)
Vlado Stankovski (University of Ljubljana, Slovenia)
Bruno Tuffin (Inria Rennes, France)
Kostas Tserpes (Harokopio University of Athens, Greece)

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