

Call for Contributions

[DI2F: Decentralising the Internet with IPFS and Filecoin](#)

21 June 2021 / Hosted by IFIP Networking 2021 in Helsinki and Espoo, Finland

Extended deadline: 31 March



The [InterPlanetary File System \(IPFS\)](#) is a peer-to-peer, content-addressable, distributed file system that seeks to connect all computing devices with the same system of files. It is an open-source community-driven project, with reference implementations in Go and Javascript and a global community of millions of users.

IPFS resembles past and present efforts to build and deploy P2P and content-centric approaches to content storage, resolution, distribution and delivery. IPFS and [libp2p](#) — the modular network stack of IPFS — rely on name-resolution based routing. The content resolution system is based on the Kademlia DHT and content is addressed by flat hash-based names. IPFS sees significant real-world usage, with tens of companies building on top of its set of protocols, over 250,000 monthly active network nodes, millions of end-users, and wide adoption by several other projects in the Decentralised Web and beyond.

An adjacent project to IPFS is [Filecoin](#). Filecoin is a token-based protocol that supports a decentralised storage and delivery network. Storage and retrieval miners are rewarded according to their contribution to the network and the mechanics of Filecoin secure the network against malicious activity.

The workshop will consist of a number of different sessions and session styles that go beyond a traditional presentations-only workshop and seek to foster interaction between participants. Hands-on sessions will give participants first-hand knowledge of how to use IPFS, while a capstone competition will give attendees the chance to develop open-source applications on top of IPFS and win prizes.

The workshop welcomes contributions in the following formats:

- **Work-in-progress papers** (limited to 6 pages).
- **Abstract or position papers** (limited to 2 pages).
- **Demos** (limited to 2 pages) showcasing a proof-of-concept prototype.
- **Competition project ideas** (limited to 1 page) to be included in the competition session, which will take place following the workshop.

Topics of interest include but are not limited to:

- Improvements to the IPFS protocol stack or the Filecoin protocol from a performance, privacy, or security perspective.
- Architectural proposals or protocol contributions that advance the state of decentralisation in Internet services.
- Socio-economic, legal, and/or regulatory aspects of content-addressable, permissionless, P2P networks.
- Applications that build on top of decentralised network storage and retrieval protocols.

Important Dates

- Submission Deadline: ~~Friday, 19 March 2021~~ **Wednesday, 31 March 2021**
- Acceptance Notification: Friday, 23 April 2021

Paper Submission Information

Papers should not exceed the page limit in IEEE format (double-column, 10pt font), including figures and references and should be [submitted through EDAS](#) in PDF format. More information will follow.

Only original papers that have not been published or submitted for review elsewhere will be considered for publication in the proceedings. The review process is single-blind - authors should present their names and affiliations in the submitted manuscript.

Papers will appear in the conference proceedings and will be submitted to IEEE Xplore Digital Library. At least one author of each accepted paper is required to register and present the work in the workshop.

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- Jorge M. Soares (Protocol Labs, US)

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