



Call for Papers

2nd International Workshop on Intent-based Networking

***** WIN 2022 *****

In conjunction with IEEE NetSoft 2022, Milan, Italy

<http://adda-association.org/win-2022>

Intent Based Networking (IBN) aims at technology-agnostic, fast and robust interaction between network infrastructure management systems and their users, in order to automate and speed up the deployment and lifecycle of applications. IBN as such covers mechanisms to recognize, understand and augment intents defining service or operational requests, so as to ensure their fulfillment, with the support of reliable system feedback enabling their execution within the expected quality limits.

The concept of IBN appeared in the 2010's with a focus on automated policy configuration. IBN now reaches out to OTT applications deployed on multiple and heterogeneous networks. IBN solutions do not aim at covering all applications and the entire network. Instead, they are deemed to run in a well-defined network scope and associated knowledge domains. That said, IBN solutions need to have enough flexibility to span and exchange with connected domains.

The goal of this workshop is to gather research and experiments from industry, academia, and standards, to get a sense of where we stand, what needs to be addressed and what should be explored. To this end, the workshop will cover IBN aspects of all domains including applications, concepts, lifecycle, challenges, architectures, modeling, instantiation, robustness, etc.

Prospective authors are invited to submit high-quality original technical papers for presentation at the workshop and publication in the NetSoft 2022 Workshops Proceedings.

All submissions must be written in English and must use standard IEEE two-column conference template that can be downloaded from <https://www.ieee.org/conferences/publishing/templates.html>.

Papers can be up to 6 pages, including references and all other material.

Papers submitted should describe original, previously unpublished research results, not currently under review by another conference or journal. Papers not meeting the length and formatting requirements or violating IEEE's guidelines on plagiarized content will be rejected without review.

Only PDF files will be accepted for the review process and all manuscripts must be electronically submitted through EDAS: <https://www.edas.info/chair.php?c=29267>.

A selection of the best papers will be further considered for possible publication in IEEE Journals and Magazines with high impact factors.

Topics of interest include and are not limited to:

- IBN concepts, architectures, and frameworks
- IBN enabling techniques: knowledge graphs, natural languages understanding, policy refinement, feedback control loops, smart telemetry, various artificial intelligence methods, etc.
- IBN applications and use cases, including scenarios combining digital infrastructures and vertical industries
- IBN proof-of-concepts, experimentations; report on field trials and real-world deployments
- IBN implementations, tools, and user interface design
- IBN applications for 5G, beyond-5G and 6G networks
- Intent modeling, representation, languages, and intent translation techniques
- Intent and intent-related information models (policies and services)
- Intent recognition, recommendation, and abstraction techniques
- Availability, resiliency, performance, trust, and security considerations in IBN
- Interfaces and API for intent based systems
- Recent advances in standards and open source

Important dates:

Workshop paper submission deadline:	February 28, 2022 March 21, 2022 (Extended, Firm)
Workshop paper acceptance notification:	April 21, 2022
Camera-ready paper submission deadline:	May 5, 2022
Workshop date:	June 27 or July 1, 2022

Organizing committee:

General co-chairs	Laurent Ciavaglia	Rakuten Mobile, France
	Sabine Randriamasy	Nokia, France
TPC co-chairs	Eric Renault	ESIEE Paris, France
	Molka Gharbaoui	Scuola Superiore Sant'Anna, Italy
Industry track co-chairs	Pedro Henrique Gomes	Ericsson, Brazil
	Danny Lachos	Benocs, Germany
	Nicolas Herbaut	Université Paris 1 Panthéon-Sorbonne, France
	Sabine Randriamasy	Nokia, France
Publicity co-chairs	Barbara Martini	CNIT, Italy
	Mohamed-Faten Zhani	ETS, Canada
	Kohei Shiimoto	Tokyo City University, Japan
Publication chair	Nicolas Herbaut	Université Paris 1 Panthéon-Sorbonne, France
Web chair	Eric Renault	ESIEE Paris, France