

ProNet 2022 – 1st IEEE International Workshop on
Programmable Networks for Tactile Internet

Co-located with IEEE NetSoft

27 June - 1 July, 2022

Milan, Italy

CALL FOR PAPERS

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The ProNet 2022 -- 1st IEEE Workshop on Programmable Networks for Tactile Internet is crucial for researchers to get in touch with the latest technologies and trends in programmable networks and tactile Internet. The workshop (ProNet'22) will take place in Milan, Italy, in conjunction with the IEEE NetSoft conference. The main topic of ProNet 2022 will be “Key enablers towards a tactile Internet.”

TOPICS OF INTEREST

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1) Hardware

- * Programmable data plane hardware platforms
- * Architectures for packet processing in hardware, such as with FPGA and SmartNICs
- * Design tradeoffs in terms of flexibility, performance, and overall system's stability
- * Measurement studies on latest hardware platforms

2) Software and Networking

- * P4 program verification, software execution environments and protocols
- * Transport layer design for in-network computing
- * Kernel by-passing techniques, low-latency container networking, such as service mesh
- * Programmable data plane architectures
- * Security and Privacy in programmable networks

3) Applications

- * Architectures of in-network computing and storage networks
- * Anomaly detection and audio source separation
- * Softwarized mobile communication core networks, energy efficiency of virtualized radio access networks

4) Thematic topic for ProNet 2022 is “Key enablers towards a tactile Internet.”

- * In-band Network Telemetry (INT), congestion control, network slicing
- * Programmable data plane for radio access networks, towards a fully softwarized mobile edge
- * VR/AR/XR, by leveraging novel paradigms, e.g., Information Centric Networks (ICN)
- * Facilitating interaction between human and machines
- * Interaction between Body Area Networks (BANs)

This workshop aims to bring together a diverse group of researchers and practitioners to discuss recent research results and identify future challenges related to programmable networks, especially towards realizing a tactile Internet. The ProNet 2022 Workshop is committed to high publication ethics standards through a rigorous single-blind peer-review process. Submitted manuscripts must be original and not published or under consideration elsewhere.

They must not infringe any copyright or third-party right.

We welcome technical contributions of all kinds, including papers discussing new approaches, experience reports, tools, surveys, etc. Papers should be up to 6 pages in the IEEE 2-column US-Letter style using the IEEE Conference template and submitted in PDF format via <https://edas.info>.

Only PDF files will be accepted for the review process and all manuscripts must be electronically submitted through EDAS: <https://www.edas.info/newPaper.php?c=29268>

WORKSHOP ORGANIZERS

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Giang T. Nguyen (TU Dresden, Germany)

Frank H. P. Fitzek (TU Dresden, Germany)

Fabrizio Granelli (University of Trento, Italy)

IMPORTANT DATES

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* Paper submission: March 21, 2022 (Extended, Firm)

* Notification: April 21, 2022

* Camera ready due: May 5, 2022

* Workshop date: June 27, 2022 or July 1, 2022

FURTHER INFORMATION

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<https://netsoft2022.ieee-netsoft.org/>