86th IFIP WG 10.4 Meeting Brisbane, Australia June 27 — 30, 2024

Business Meeting





86th WG Meeting – Participants

- 36 participants
 - Asia: 6
 - Europe: 10
 - North America: 7
 - Middle East: 3
 - Oceania: 10
- 11 members
- 25 guests

Thanks everyone!

Agenda

- DSN 2025, DSN 2026
- Related Conferences
- JCL Award 2024
- WG Meetings
- Virtual Workshops
- Second part restricted to members of the WG!

DSN 2025 Naples, Italy

- Domenico Cotroneo,
- Marcello Cinque,
- Univ. di Napoli Federico II





Dates and travel

- 23-26 June 2025
- Many flight options to Naples International Airport through New York, Dubai, Rome, London, Paris, Munich, Amsterdam, and many others
- June is summer in Italy, with sunshine and warm weather
 - bring the swimming suit!



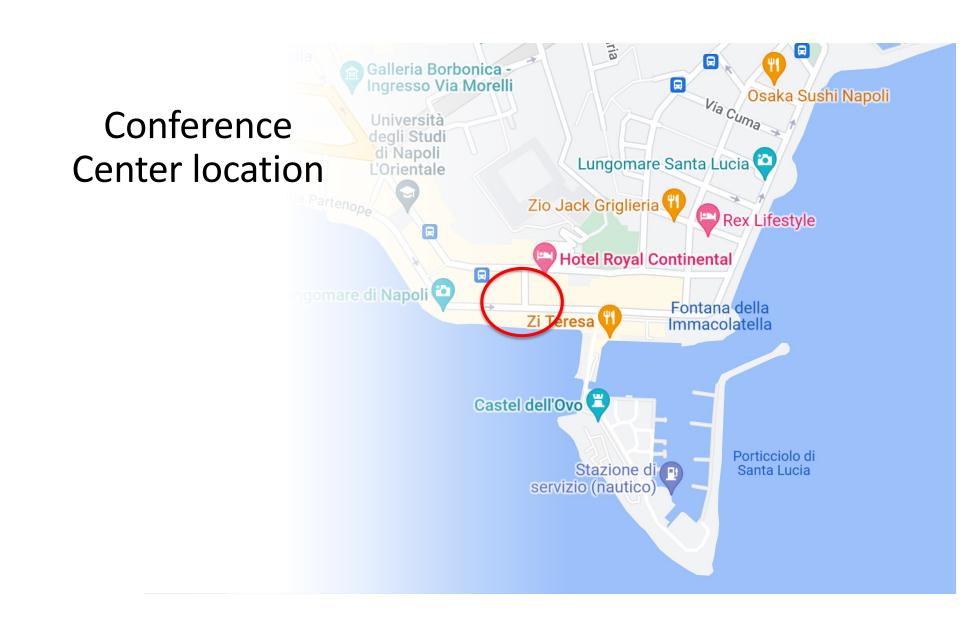
Venue: Conference Center Federico II



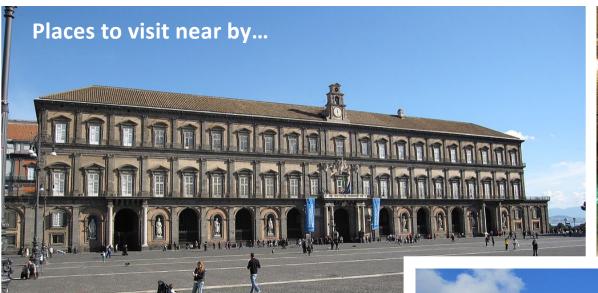
Lunch & Breaks

















Excursion and Banquet









Hotel Booking

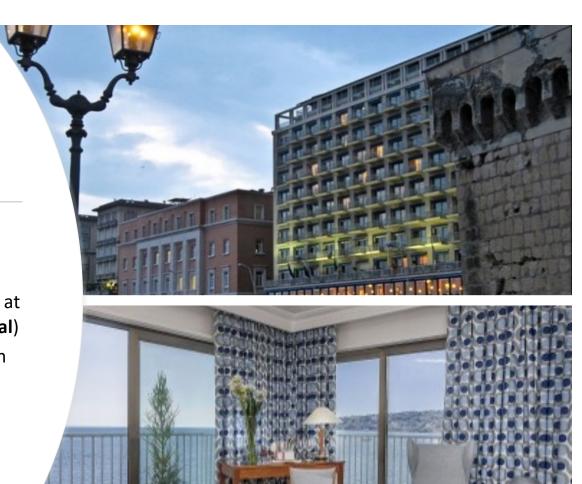
• June is high holiday season in Naples

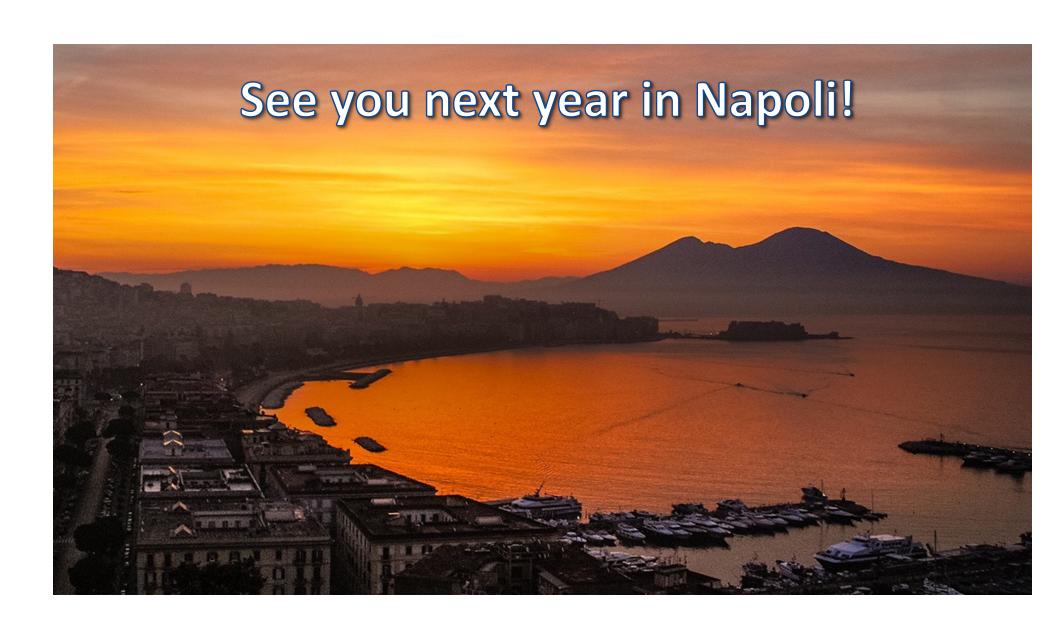
• Hotel occupancy nears 100%

 We have pre-booked a number of rooms at the Conference's Hotel (Royal Continental)

 Info to book the hotel will be available on the website before the end of the year

 We recommend to book your room well in advance!







DSN 2026

Bojan Cukic

College of Computing and Informatics
University of North Carolina at Charlotte

Facts about Charlotte, NC

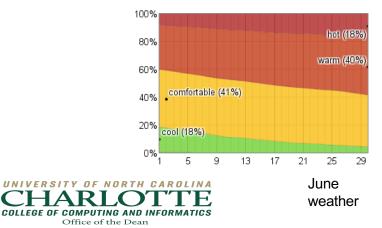
Large (1M city, 2.6M region)

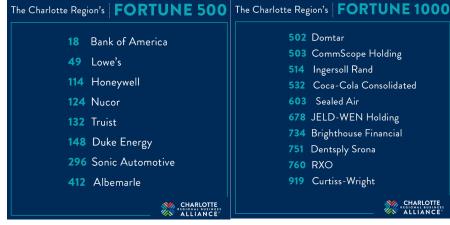
2nd banking center in US

Arts, museums, sports scene

Airport hub







The University of North Carolina at Charlotte





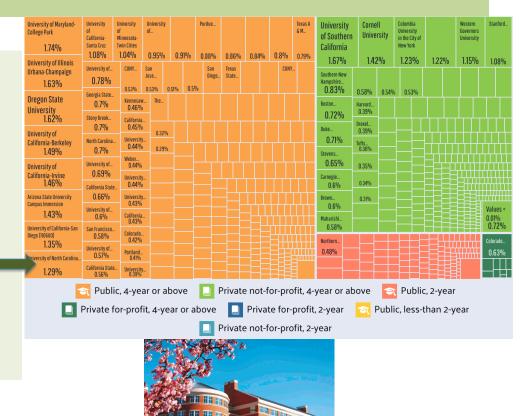
- Urban research (R1) university
- 30,000+ students, 170 bachelor's, master's and doctoral programs





College of Computing and Informatics

- 100+ faculty & staff,4 departments
- 3,200 undergraduate, 1,600 graduate students
- 1,300+ degrees granted annually
- 215% increase in enrollment, 385% increase in degrees in 10 years





DSN proposal - Background

- Organizational experience:
 - ISSRE 2022
 - SRDS 2024
 - ISADS 2025



- Annual Charlotte Cyber Security Symposium
 - 700+ attendees















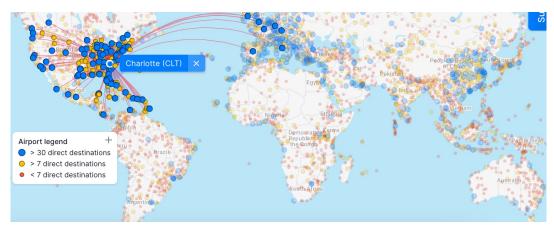


Charlotte - Transportation

- Charlotte Douglas Airport
 - 7th-busiest in the world
 - 539,066 takeoffs and landings
 - 53+ million passengers (top 20)
 - 144 US and 44 international destinations



 Light rail connects UNC Charlotte Campus to Uptown





Organization

- Option 1 main campus:
 - UNC Charlotte Marriott Hotel and Conference Center
 - Fully utilize the CLT campus
 - 30+ nearby hotels
- Local, option 2
 - UNC Charlotte Center City
 - Largest room for ~250?
 - · Walking everywhere
- Banquet: NASCAR Hall of Fame
- Tour: Mint/Bechtler Museums







Summary

- Charlotte is easy to reach, safe and pleasant city.
 - Strive to organize a moderately priced event
- Significant experience of the organizers
- Support from UNC Charlotte
 - Will try to host the event on campus
 - College of Computing, new positions in trustworthy AI
 - Conference organization support
- ...and if you extend your trip, you may see a FIFA World Cup game or two!!!



DSN 2027

- Three proposals!
- Berlin
- Beijing
- Shanghai

Related Conferences

- ISSRE 2024
 - Tsukuba, Japan
 - October 28-31
- EDCC 2025
 - Lisbon, Portugal
 - April 8-11
- SAFECOMP 2024
 - Florence, Italy
 - Sept. 17-20

- PRDC 2024
 - Osaka, Japan
 - Nov. 13-15, 2024
- LADC 2024
 - Recife, PE, Brazil
 - Nov 26-29th
- SRDS 2024
 - Charlotte, NC, US
 - Sept 30th Oct. 3rd

JCL Award 2024

- Chair:
 - Chair: António Casimiro, University of Lisboa, PT
- Members:
 - Doug Blough, Georgia Tech, USA
 - Andrea Cecccarelli, University of Florence, IT
 - Ilir Gashi, City, University of London, UK
 - Nobuyasu Kanekawa, Hitachi, Ltd., JP
 - Nuno Neves, University of Lisboa, PT
 - Wilfried Steiner, TTTech, AT
 - Jiangshan Yu, University of Sydney, AU
- 7 papers nominated

Winner of the 2024 JCL Award

A methodology for detection and estimation of software aging

S. Garg, A. van Moorsel, K. Vaidyanathan and K. S. Trivedi 9th Intl Symp. on Software Reliability Engineering (ISSRE), Paderborn, Germany, 1998, pp. 283-292, doi: 10.1109/ISSRE.1998.730892

... the first paper to monitor executing software and statistically analyze the collected data to predict the time to exhaustion of various operating system resources and ultimately to quantify and estimate software aging. The paper had a significant impact on the academic community (400+citations) and was pioneer in proposing a methodology to measure software aging and rigorous mathematical techniques to analyze aging effects. The proposed methods had a strong impact in industry, namely catching the attention of researchers at IBM who took up on them and implemented aging detection and software rejuvenation in the IBM X-Series systems...

Winner of the 2024 JCL Award

Flipping bits in memory without accessing them: An experimental study of DRAM disturbance errors

Y. Kim, R. Daly, J. Kim, C. Fallin, J. H. Lee, D. Lee, C. Wilkerson, K. Lai and **Onur Mutlu** ACM/IEEE 41st Intl Symp. on Computer Architecture (ISCA), Minneapolis, MN, USA, 2014, pp. 361-372, doi: 10.1109/ISCA.2014.6853210

... the first paper to introduce, demonstrate, analyze, and propose solutions to DRAM row disturbance errors, later known as Rowhammer. The solution proposed in the paper, PARA (Probabilistic Adjacent Row Activation), was incorporated by Intel and other CPU vendors, and is still one of main ways to fix Rowhammer. It took a while for the problem to be recognized by DRAM vendors, but eventually it led to significant efforts and investment into fixing it ...

WG Meetings: Locations & Organizers

- Winter 2025 Praia do Forte, BA, Brazil
 - Catello Di Martino, Elias Duarte, Andrey Brito
- Summer 2025 Naples, Italy (together with DSN 2025)
 - Domenico Cotroneo, Luigi Romano
- Winter 2026 looking for proposals
- Summer 2026 Charlotte, NC, US (together with DSN 2026)
 - Bojan Cukic

IFIPWG10.4

Winter 2025

Lelio Di Martino, Nokia Bell Labs Andrey Brito, University of Campina Grande Elias Duarte Jr, Federal University of Parana NO<IA BELL LABS



Praia do Forte – Bahia, Brazil







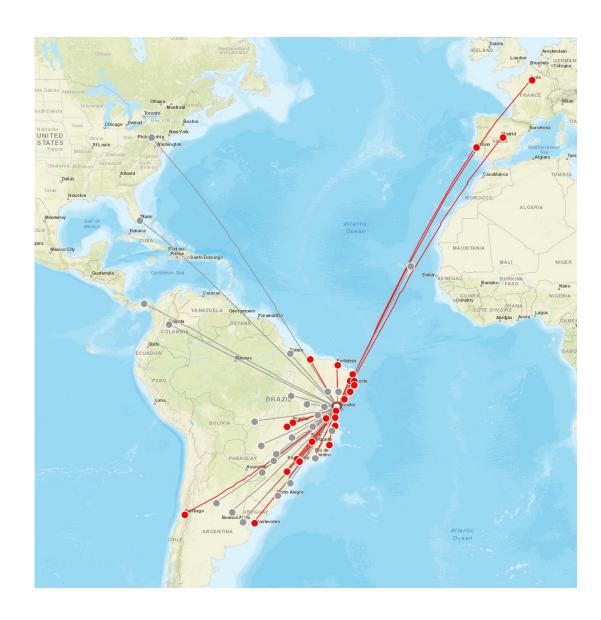






Salvador airport

Direct flights from US, Spain, Portugal, France, Colombia, Argentina, Chile, Paragu



Salvador Int. Airport (SSA, Bahia, Brazil)

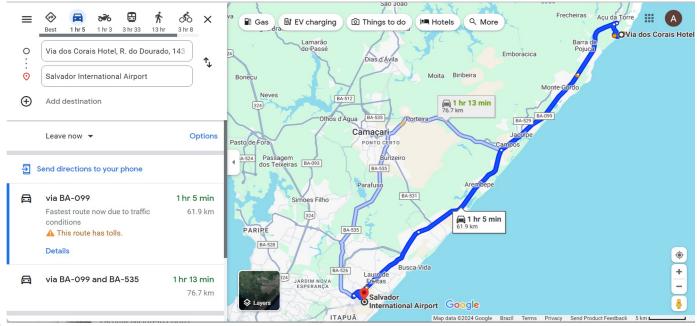


Origin	Daily flights	Good as connection for travellers from
Brasília	6	North America
Buenos Aires	1	Asia and Oceania
Fortaleza	3	North America and Europe
Lisboa	1	Europe
Madrid	1	Europe
Recife	7	Europe
Rio de Janeiro	7	Worldwide
São Paulo (GRU)	20	Worldwide

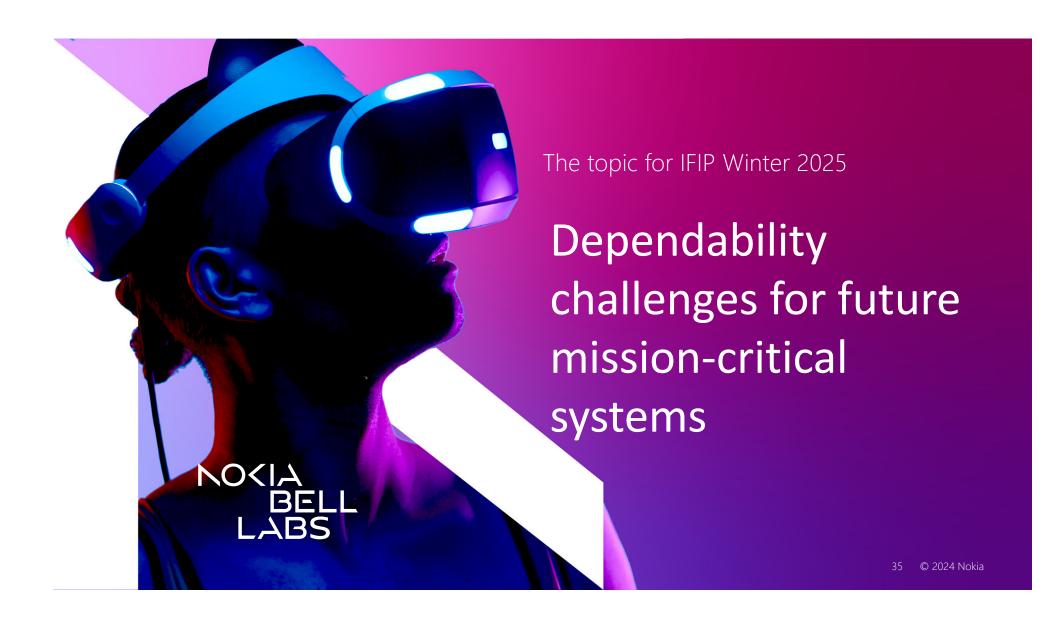
33 © 2024 Nokia

Airport SSA to Praia do Forte

Collective taxi service will be provided at specific times between Salvador and Praia do Forte Included in the registration! (Wednesday and Thursday before the event)!







Strong Industry presence

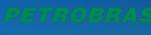
Inspire new use cases for the IFIP community

Brazilian representatives from international companies with requirements and results on mission-critical systems

Focus on challenges and use cases of mission-critical industry verticals









BOSCH



And potentially more











Location

Excursion and Banquet

- 1. Vila de Santo Antonio
- 2. Leave at 13:30 via minivans (15-19 people) for a Visit to the "Vila de Santo Antonio"
 - 2. handicraft from Bahia
 - 3. Fruit, drinks, food, music and "Capoeira"
 - 4. bring your **Havaianas**!
- 3. 16:00 leave for the next stop: Garcia D'Avila's castle



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Additional Tours

Booked independently

1 day excursion in Salvador

Buggy tour

Projeto Tamar

Whale Museum

Imbassaí beach





Venue opt. 1: Hotel Via dos Corais











Venue opt 1: Hotel Via dos Corais













Venue opt. 2: Pousada Casa do Forte



Venue opt. 2: Pousada Casa do







Registration

- Event fee includes
 - Meeting room and coffee breaks
 - Social excursion
 - Banquet (Saturday)
 - Welcome cocktail (Friday)
 - Lunch (Saturday & Sunday)
- Accompanying person fee includes
 - Banquet dinner
 - Excursion
 - lunches (Saturday & Sunday)
 - Welcome cocktail (Friday)

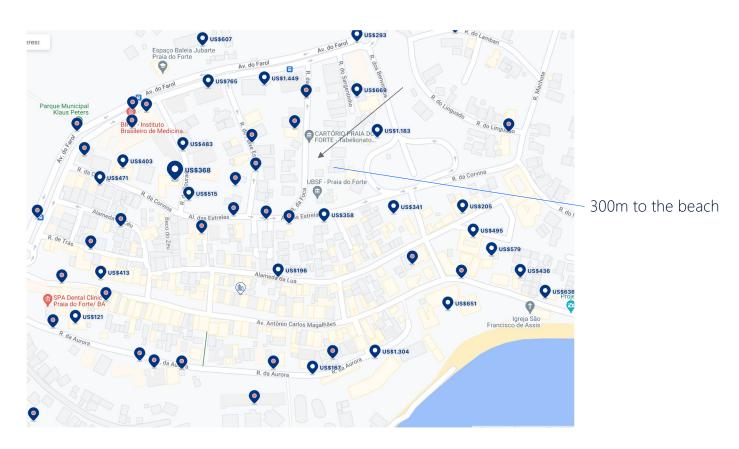
Tentative values *

- 525Eur + 20% VAT
- 100Eur accompanying person
 - Round trip transportation from the SSA airport included with a group shuttle for IFIP at given hours on Tuesday and Wednesday and Thursday before the workshop
 - Pre-negotiated certified dedicated driver for up to 4 people +100\$ (round trip)
- 60-160Eur average daily rate for 70% of the hotels and "pousadas" (booking 8,7+ rating) – all with amazing breakfast and afternoon tea
- Discount code for a block of rooms in the meeting hotel
- There are many excellent restaurants in the neighborhood.

Feb is Very high season: booking to be finalized by Nov 1st 2024



Pousadas in less than 5 min walk































































IFIP WG 10.4 Summer 2025 Naples, Italy

Domenico Cotroneo

IFIP WG10.4 Meeting, June 2024

IFIP WG 10.4 Winter 2026

Looking for proposals!

IFIP WG 10.4 Summer 2026 Charlotte, NC, US

Bojan Cukic

IFIP WG10.4 Meeting, June 2024

Virtual Workshops 2023

- Spring 2023 May 4th
 - Organized by Marcus Voelp, University of Luxemburg, Luxemburg
 - Two talks:
 - Wolfgang Kunz (Rheinland-Pfälzische Technische Universität, Germany)
 - Thomas Mikolajick (TU Dresden, Germany)
 - > 25 attendees
- Fall 2023 Nov. 8th
 - Organized by Andrea Ceccarelli, University of Florence, Italy
 - Two talks:
 - Isabella Ferrari (University of Studies of Modena and Reggio Emilia, Italy)
 - Veronica Palladini and Rolando Poggi (University of Modena and Reggio Emilia, Italy)
 - ~40 attendees

Virtual Workshops 2024

• Spring 2024 – April / May

- **CANCELLED!**
- Fall 2024 October / November
- Looking for volunteers!

Communication and Outreach

Andrea Ceccarelli

IFIP WG10.4 Meeting, June 2024

Members

- Homa Alemzadeh
- Antonio Casimiro
- Andrea Ceccarelli (chair)
- Marcus Völp
- Jiangshan Yu

Proposed actions

Find initiatives that could further increase visibility of the IFIP group. Also, it is beneficial if there is a direct participation of as many group members as possible.

Two initial proposal in this direction:

- IFIP WG10.4 google scholar
- Periodically collect & post initiatives from members on Linkedin
- Details in the next slides

IFIP WG10.4 Google Scholar

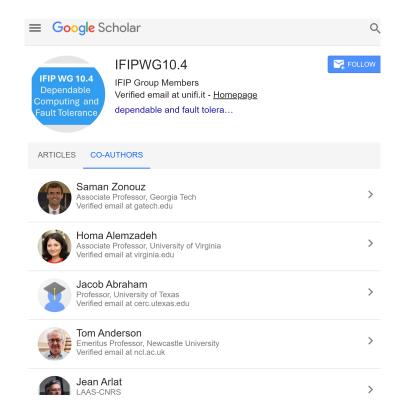
A collection of our google scholar profiles

Not searchable —> to find it, you need the link, that, e.g., can be placed on wg10.4 website or Linkedin

Unfortunately, cannot show all our papers and statistics (there is a limit to 3000 papers)

But: 32 members without G. Scholar account (or was not found)

Link to google scholar profile



Periodically collect & post initiatives from members on Linkedin

Promote usage of Linkedin, which seems the most promising instrument to increase «online visibility».

In the last year, the only posts are announcements of meetings.

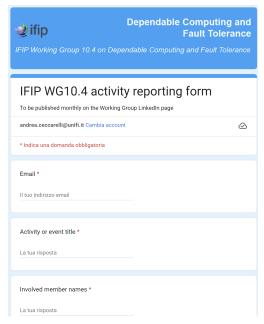
Proposal:

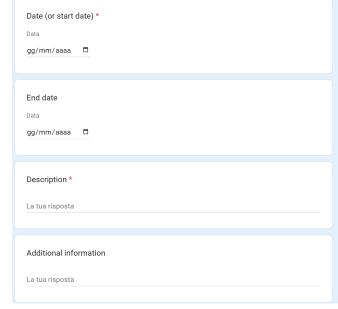
- Periodically post information on members' activities
- Making group members responsible to contribute
 - We can prepare a google form that members can fill, on topics like: selected publications, new projects, awards, open positions, events, ? (suggestions welcome)
 - Once per month, the information will be posted on the linkedin page
 - No selection (unless blatantly out-of-context)

Example of the google form

Would look like something like this

https://docs.google.com/form s/d/e/1FAIpQLSf8Zw9Sj6O8EG eHUvobps5wDFkkLdISIVKHiM57GcKZRrEQ/viewform





Comments?

Please let us know comments and suggestions!

Second part

Restricted to members of the WG!

