

# Joint TC10 / TC11 Meeting

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*24 September 2019*

TC10 Chair: Alicia Fornes

TC11 Chair: Dimosthenis Karatzas

# Agenda

- 17:40 – 17:55 Report on activities TC10 and TC11
- 17:55 – 18:00 Future of DAR workshop - Synthesis and conclusions
- 18:00 – 18:05 ICDAR 2021 report
- 18:05 – 18:15 Presentation of ICDAR 2023 hosting bid
- 18:15 – 18:20 Voting on the received bid (yes / no)

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# JOINT TC10/11 MEETING

# TC11 REPORT

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Chair: Dimosthenis Karatzas

Vice Chair: Gernot Fink

# Membership / Structure

TC11 has **1210 members** in its mailing list

Still not a member? Join the TC11:



<https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=IAPR-TC11>



## Leadership team (2018-20)



**Chair:** Dimosthenis Karatzas



**Vice chair:** Gernot Fink



**Dataset curator:** Joseph Chazalon



**Communications:** Andreas Fischer



**Education officer:** Michael Blumenstein



**Past chair:** Koichi Kise

# Communications

Andreas Fischer



- TC-11 Web Page



<http://www.iapr-tc11.org/>

- TC-11 Newsletter

- Also archived on the TC11 Web page
- Join to receive the newsletter here:



<https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=IAPR-TC11>

- Social Media

- Twitter account: [@IAPR\\_TC11](https://twitter.com/IAPR_TC11)



# Datasets

Joseph Chazalon



**TC-11 Online Resources**

Login / Register

Introduction Datasets per Topic Datasets per Publication Upload Dataset News Software & Tools Contact information

## DIVA-HisDB Historical Document Image Database (DIVA-HisDB)

2016-09-20 (v. 1)

**Contact author**

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You can cite this dataset as: Fotini Simistira, DIVA-HisDB Historical Document Image Database (DIVA-HisDB), 1, ID: DIVA-HisDB\_1, URL: [http://tc11.cvc.uab.es/datasets/DIVA-HisDB\\_1](http://tc11.cvc.uab.es/datasets/DIVA-HisDB_1)

### Dataset Information

**Keywords**

document analysis, layout analysis, historical documents

**Description**

DIVA-HisDB is a collection of three medieval manuscripts that have been chosen regarding their layout [1], together with partners from e-codices (<http://www.e-codices.unifr.ch/>) and the Hum University of Fribourg:

**TC-11 Online Resources**

Introduction Datasets per Topic Datasets per Publication Upload Dataset News Software & Tools Contact information

## Dataset Upload

### 2 Dataset Information

(\*) **2.1. Acronym.** Please provide an acronym for the dataset. This is how your dataset will be identified on the TC-10 or TC-11 Web site.

(\*) **2.2. Title.** Please provide a title for the dataset. This is how your dataset will be identified on the TC-10 or TC-11 Web site. Avoid generic titles and prefer titles that would identify the dataset uniquely like "The University of Duckburg of Scanned Tables".

**2.3. Keywords.** Please provide a list of keywords that will be used to categorise and search for your dataset.

**2.4. External dataset.** The dataset is external (it's in another webpage)? If you mark yes you will be available only to put the url and a short description of the dataset.

☒ No  
☐ Yes

(\*) **2.5. Description.** Write a short description (a couple of paragraphs max) of what is included in the dataset. Importantly, include information about how the dataset was constructed and the data collected. For example if 100 scanned pages are submitted, it is important to know if they are sourced from a single book, or they are 100 pages from 100 distinct books. If data were collected from human subjects describe the task they were given, and any statistics that you find relevant (e.g. nationality, mother tongue, age groups, gender etc).

Andreas Fischer Log out

**1. Submission Information**

**2. Dataset Information**

| File | Size |
|------|------|
|      |      |

**3. Ground Truth**

**4. Research Tasks Definition**

**5. Copyright Ownership**



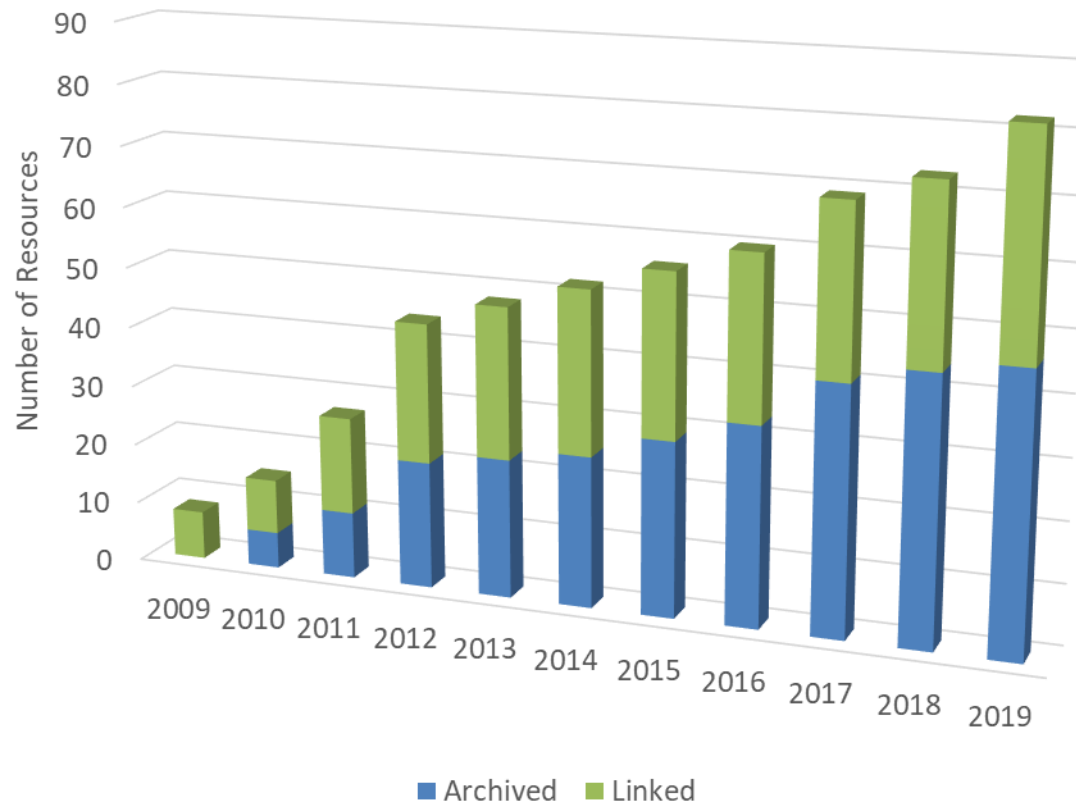
<http://datasets.iapr-tc11.org/>

# Datasets

Joseph Chazalon



TC11 Public Resources Evolution



Between January and September:

- 10 new datasets referenced
- 2 datasets updated

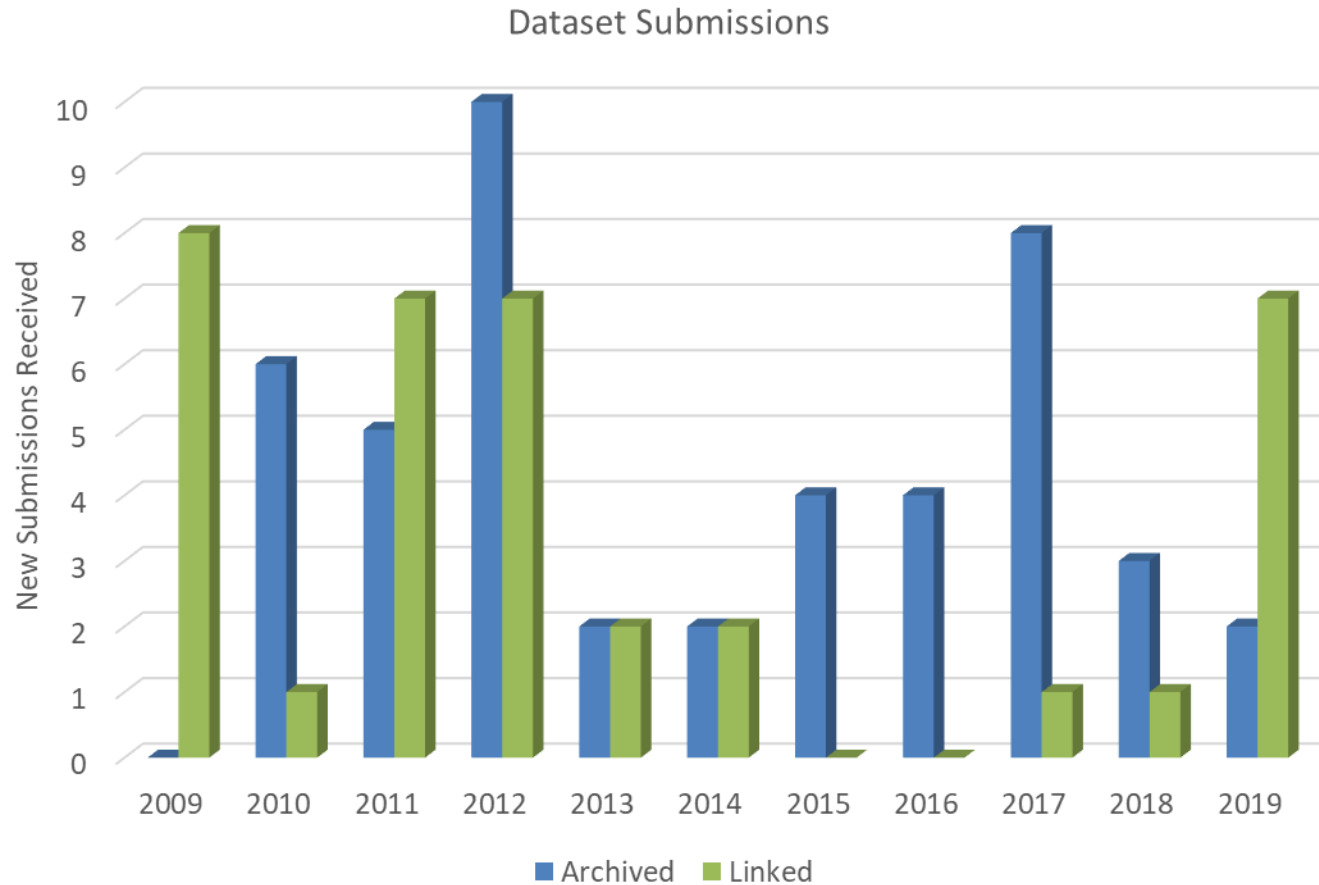


<http://datasets.iapr-tc11.org/>



# Datasets

Joseph Chazalon



# Datasets: Adopt new trends

Joseph  
Chazalon



Being aware of the need of a reliable hosting and a maximum visibility, many researchers now use Google Drive, GitHub Releases or Zenodo to share datasets. They also often use GitHub to share open source software. **It may discourage them from using our platform and properly target the DAR community.**

## Possible solutions

- **Embrace Zenodo** for data distribution and archival (for external datasets)  
More in next slides
- Embrace GitHub for Open Source Software  
More in next slides

# About zenodo

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Chazalon



## Features

- <https://zenodo.org/>
- EU funding for at least 20 years
- Rock-solid infrastructure (CERN) used to store Petabytes of data
- Great search engine visibility
- Free
- Large upload limits (50 GB for regular tier)
- Open indexing, DOIs
- Versions
- Statistics
- Automated GitHub project archival
- ...
- **By researchers, for researchers**

## How to make use of it for TC11 dataset curation

- Zenodo has a community feature.
- **We created a [beta community](#) for IAPR TC11**

## How it works in practice

1. Authors select this community when submitting a work to Zenodo.
2. We validate the submission.
3. The submission is automatically listed under the community.
4. The authors have more visibility within DAR community.

About

zenodo

Joseph  
Chazalon

zenodo

Search



Upload

Communities

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# IAPR-TC11: Association for Pattern Recognition Technical Committee Number 11

## Recent uploads

Search IAPR-TC11: Association for Pattern Recognition Technical Committee Number 11



August 28, 2015 (v1)

Dataset

Open Access

View

### ICDAR2015 competition on smartphone document capture and OCR (SmartDoc) - Challenge 2

Burie, Jean-Christophe; Chazalon, Joseph; Coustaty, Mickael; Eskenazi, Sebastien;  Luqman, Muhammad Muzzamil; Mehri, Maroua; Nayef, Nibal; OGIER, Jean-Marc; Prum, Sophea; Rusinol, Marçal;

ICDAR2015 competition on smartphone document capture and OCR (SmartDoc) Challenge 2: MOBILE OCR COMPETITION  
The goal of the competition is to extract the textual content from document images which are captured by mobile phones. The images are taken under varying conditions to provide a challenge

Uploaded on February 20, 2019



August 28, 2015 (1.0.0)

Dataset

Open Access

View

### ICDAR'15 SMARTPHONE DOCUMENT CAPTURE AND OCR COMPETITION (SmartDoc) - Challenge 1 (original version)

 Chazalon, Joseph;  Rusiñol, Marçal;

CHALLENGE 1: SMARTPHONE DOCUMENT CAPTURE COMPETITION Smartphones are replacing personal scanners. They are portable, connected, powerful and affordable. They are on their way to become the new entry point in business processing applications like document archival, ID scanning, check digitization

Uploaded on April 26, 2018

 New upload

Community



### IAPR-TC11: Association for Pattern Recognition Technical Committee Number 11

**IAPR TC11** is the International Association for Pattern Recognition (IAPR) Technical Committee Number 11. IAPR TC11 is concerned with the theory and applications of Reading Systems. We seek to study and develop systems that recognize character content and structure in handwritten and typeset documents, images, and video.

[Read more](#)

Curated by:

jchazalon

# Datasets: Leverage GitHub (promote open software)

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## GitHub relevant features

- Widely used, great support.
- Free for public projects.
- “Organizations” make it easy to manage a group of projects.
- “Forking” make it easy to copy a project at a given point in time.

## Possible workflow

### How it works in practice

1. Authors create and publish a new software on GitHub.
2. Authors notify Dataset Curator(s) (DC) to promote their software.
3. DC fork the original repository to archive it, referencing it automatically under the community repositories, preserving original documentation and attribution.
4. DC update some software list based on available data (or some pull request from the same authors).

# Datasets: Visibility

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- Easy referencing
- Standard CC license
- Dissemination through TC11 newsletter / Twitter
- Other ideas:
  - Public announcements during our events (1-minute pitch, posters)
  - “Upload parties” during events (package, choose a license, describe, upload...)

## A Dataset for Arabic Text Detection, Tracking and Recognition in News Videos - AcTiV (AcTiV)

2016-03-16 (v. 1)



### Contact author

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SAGE Lab, University of Sousse,  
Tunisia & DIVA Group, University  
of Fribourg, Switzerland  
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0041775093187



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You can cite this dataset as: Oussama Zayene, A Dataset for Arabic Text Detection, Tracking and Recognition in News Videos - AcTiV (AcTiV), 1, ID: AcTiV\_1, URL: [http://tc11.cvc.uab.es/datasets/AcTiV\\_1](http://tc11.cvc.uab.es/datasets/AcTiV_1)



# JOINT TC10/11 MEETING

# TC10 REPORT

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Chair: Alicia Fornés

Vice Chair: Jean-Christophe Burie

# Membership / Structure

## Leadership team (2018-20)



Alicia Fornés  
Chair



Jean-Christophe Burie  
Vice-Chair



Christophe Rigaud  
Communication officer



K.C. Santosh  
Educational officer



Muzzamil Luqman  
Webmaster



Partha Pratim Roy  
Dataset Curator



# Communications

- TC-10 **NEW** Web Page and Logo



<https://iapr-tc10.univ-lr.fr/>

- TC-10 Newsletters
  - TC10 has **170 members** in its mailing list
  - Also archived on the TC10 Web page
  - Contains news, CFPs... and job offers!
- Social Media
  - Twitter account: [@IAPR\\_TC10](https://twitter.com/IAPR_TC10)
- Still not a member? join the TC10!

Membership update  
(due to GDPR)

# New Web Page

<https://iapr-tc10.univ-lr.fr/>

- News
- GREC workshop
- CFPs
- Summer schools
- Databases
- Educational Resources



Home TC10 GREC workshop TC10 / TC11 Summer School Newsletters Resources Contact us

Home > TC10 > Chair's message

## Chair's message

Welcome.

IAPR's Technical Committee 10 on Graphics Recognition promotes interaction among researchers working in document image analysis in general, and graphics recognition in particular.

Graphics Recognition is an exciting field of pattern recognition, whose main relevant topics of interest include:

- Analysis and interpretation of graphical documents, such as: engineering drawings, floorplans, mathematical expressions, comics, maps, music scores, patents, diagrams, charts, tables, etc.
- Recognition of graphic elements in heterogeneous documents, such as symbols, logos, stamps, dropcaps, drawings, etc.
- Identification and localization of graphical mark-ups and annotations in written documents.
- Raster-to-vector techniques.
- Graphics-based information retrieval.
- Historical graphics recognition and indexing.
- Forensics (Writer identification/verification) in graphic documents.
- Description of complete systems for interpretation of graphic documents.
- Datasets and performance evaluation in graphics recognition.
- Authoring, editing, storing and presentation systems for graphics multimedia documents.

Subscribe To Mailing List

**Join us!**

News & Announcements

IJDAR special issue 2019-2020 on Deep learning for graphics recognition: document understanding and beyond. For more information please visit [https://iapr-tc10.univ-lr.fr/?page\\_id=645](https://iapr-tc10.univ-lr.fr/?page_id=645).

Never Miss Any Update

TC10 IAPR\_TC10 [Follow](#)

IAPR\_TC10 Retweeted

# GREC 2019

## 13th IAPR International Workshop on Graphics Recognition

- General Chair:
  - Jean-Christophe BURIE – La Rochelle University, France

<https://grec2019.univ-lr.fr/>

- Very successful:
  - 23 papers (17 long, 6 short)
  - Around 100 participants
  - 35-40% participants from industry
  - First time for many attendees



# GREC 2019



## Sessions:

1. Graphic element extraction and recognition: Floorplan...
  2. Comics Analysis and Understanding
  3. Mathematical expressions and Music Scores
  4. Detection and Classification: symbols, sketches...
  5. Other graphic recognition approaches
- + Round-table discussion on the future of Graphics Recognition
- 2 panelists from academia, 2 from industry

**GREC is very interactive: it focuses on discussions, exchanges and interactions**

# Special Issue



**International Journal of Document Analysis  
and Recognition (IJ DAR), Springer Nature**

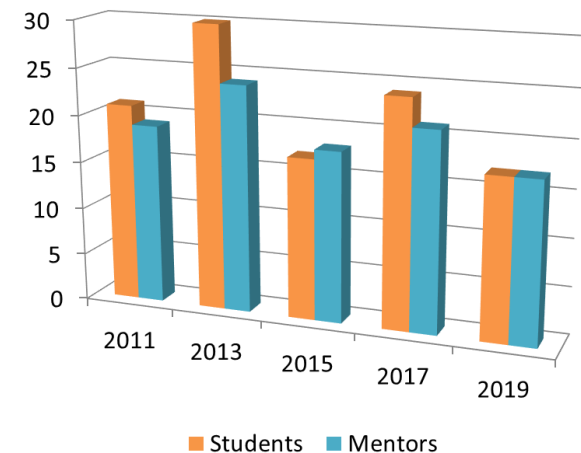
**Special Issue (2019-2020) on  
*Deep learning for graphics recognition:  
document understanding and beyond***

More details on GREC website :

[https://iapr-tc10.univ-lr.fr/?page\\_id=645](https://iapr-tc10.univ-lr.fr/?page_id=645)

# Educational Activities

- **Doctoral Consortium**
  - **Goal:** to create an opportunity for PhD students to test their research ideas, present their current progress and future plans, and receive constructive criticism and insights related to their future work and career perspectives
  - 5<sup>th</sup> edition organized in context of this ICDAR (Sept. 22)
  - **Chairs:** Véronique **Eglin** (TC 11), Jean-Christophe **Burie** (TC 10)
  - **Participating students:** 19
  - **Topical areas covered by PhD project proposals:**
    - Multilingual OCR (**1**)
    - Handwriting recognition (**1**)
    - Scene text or symbol recognition (**5**)
    - Analysis of document structure (**4**)
    - Large scale document, time optimisation (**2**)
    - Deep learning techniques for document analysis/recognition (**6**)
  - **Next edition:** In context of ICDAR 2021, Lausanne, Switzerland



# Educational Activities

- IAPR TC10/TC11 Summer School
  - **Goal:** *The aim of the School is to provide both an objective and clear overview and an in-depth analysis of the state-of-the-art research in selected topics of Reading Systems and Graphics Recognition. The School should aim to provide a stimulating opportunity for young researchers and Ph.D. students in the field.*
  - Next Call for Summer School 2021:
    - Will be released soon – please talk to **Michael Blumenstein** / **K.C. Santosh** if you are interested in organising the next TC-10/11 Summer School



# Educational Activities

## 3<sup>rd</sup> IAPR TC10 / TC11 Summer School on Document Analysis: Document Informatics

National University of Sciences and Technology (NUST), Islamabad, Pakistan,  
August 19-23, 2019



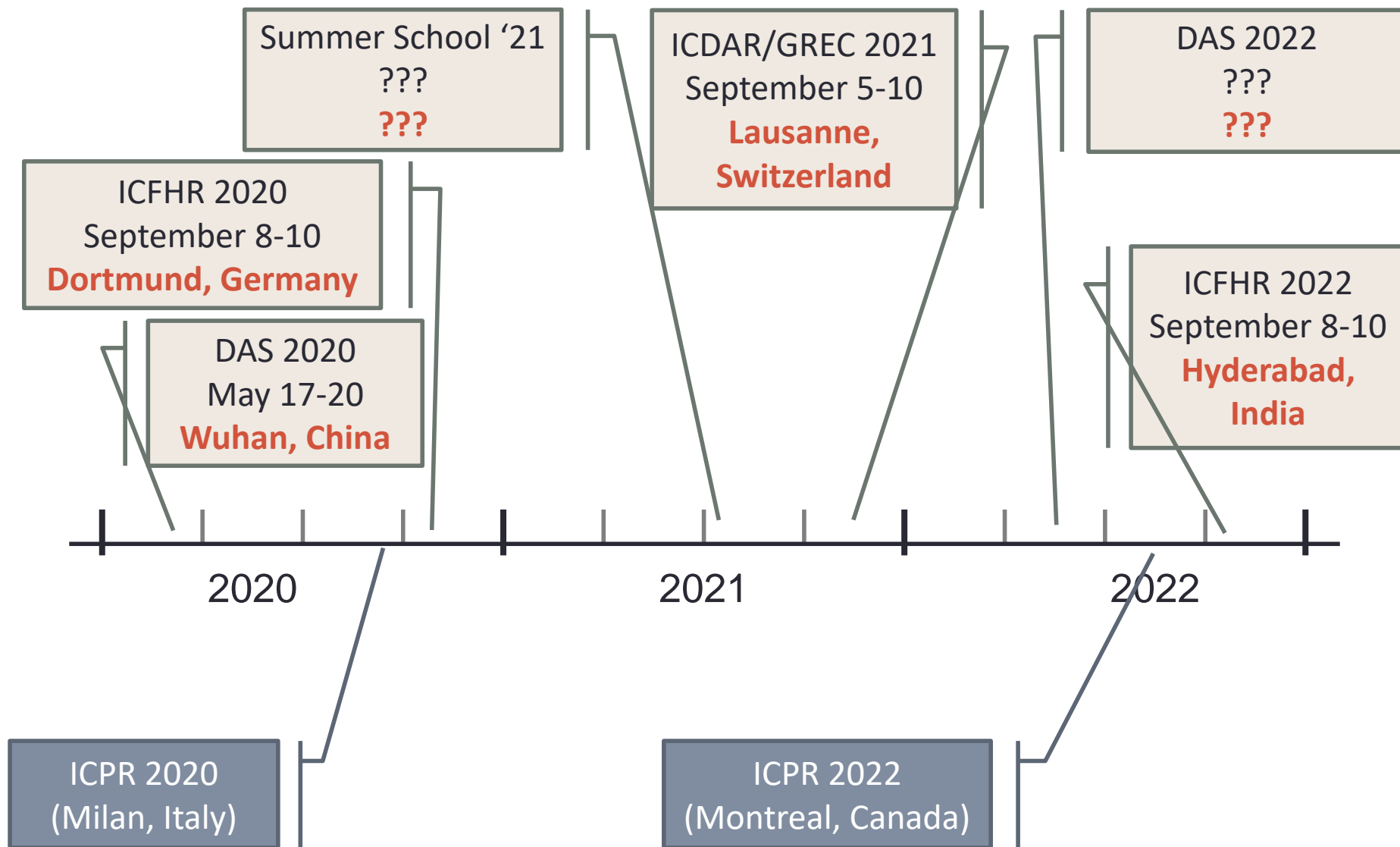
- **Theme:** Deep Learning Applications for Document Analysis
- **Organizers:** Pakistan Pattern Recognition Society (PPRS) – Faisal **Shafait**
- **Participating students:** **129** (30 Industry, 6 international students, 93 local students)
- **Programming competition:** Sketch recognition system, over the 4 days of the school
- **Poster Competition**
- **Scholarships:** **13 grants** (disadvantaged backgrounds, remote areas, academic excellence, international)



[www.pprs.org.pk/events/ssda2019.html](http://www.pprs.org.pk/events/ssda2019.html)



# Events (forthcoming)



# Forthcoming calls for bids

- ICDAR 2025 : during 2020
- ICFHR 2024 : Q1 2020
- DAS 2022 : Q3 2020
- Summer School: Q4 2019

Consider submitting a proposal!

Also: are you organizing another event related to TC10 or TC11?

Let the community know!

Please speak to **Dimos Karatzas** / **Alicia Fornes**



# ICDAR advisory board

- TC10 Chair: Alicia Fornes
- TC11 Chair: Dimosthenis Karatzas
- IAPR C&M Chair: Laurence Likforman
- Member: Koichi Kise
- Member: C.V. Jawahar

# THANK YOU!!



<http://tc11.cvc.uab.es/>



[iaprtc11@gmail.com](mailto:iaprtc11@gmail.com)



@IAPR\_TC11



<http://iapr-tc10.univ-lr.fr/>



[iapr.tc10@gmail.com](mailto:iapr.tc10@gmail.com)



@IAPR\_TC10

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# Future of DAR – Action items

1. Better coordination between TC10/11 events
  - ICDAR, ICFHR, DAS, GREC
  - Mid-long term strategy
  - Clear decision making processes
2. Improved diversity and participation
  - Connection with Industry
  - Young researchers
  - Expanding the scope of DAR
3. Grand Challenges
  - Definition
  - Resources
  - Promotion

White paper v2.0



Task Force (4 months)



Strategic plan 2025  
(public consultation)

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